

2014-3719

2016-01-27



GROUP 4 INSECTICIDE

## ADMIRE® 240 Flowable Systemic Insecticide

For control of insect pests in horticultural crops

AGRICULTURAL

SUSPENSION

GUARANTEE: Imidacloprid ..... 240 g/L

Contains 1,2-benzisothiazolin-3-one at 0.1% or 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0017% and 2-methyl-4-isothiazolin-3-one at 0.0006% as preservatives.

REGISTRATION NUMBER 24094 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND LEAFLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN



CAUTION

POISON

SHAKE WELL BEFORE USING

NET CONTENTS : 1 Litre, 3.785 Litres

Bayer CropScience Inc.  
200-160 Quarry Park Blvd., SE  
Calgary, Alberta T2C 3G3

Product Information: 1-888-283-6847

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

This product contains no colourant. An appropriate colourant must be added when this product is applied to seed. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product as a seed treatment.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on this 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. The user assumes the risk to persons or property that arises from any such use of this product.

## PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing.

Applicators, other handlers and handlers of treated seed pieces must wear:

- Long-sleeved shirt and long pants
- Water-proof gloves
- Shoes plus socks

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

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Apply only in areas with adequate ventilation or in areas that are equipped to remove spray mist. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

**NOTE:** If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at : [www.croplife.ca](http://www.croplife.ca).

## FIRST AID

**IF SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Have a 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 the eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

## TOXICOLOGICAL INFORMATION:

No specific antidote is available. Treat the patient symptomatically.

#### ENVIRONMENTAL PRECAUTIONS:

Keep out of lakes, streams, ponds or other aquatic systems. This product is highly toxic to aquatic invertebrates. Do not contaminate water when disposing of equipment wash water.

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.

This product is toxic to birds. Dispose of all excess and any spilled treated seed pieces by covering or incorporating into the soil. Left over treated seed pieces should be double sown around the headland, or buried away from water sources such as lakes, streams, ponds or other aquatic systems. Apply this product only in accordance with this label.

#### STORAGE

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

#### DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

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:

- Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

Disposal of Unused, Unwanted Product: 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.

®ADMIRE is a registered trademark of Bayer CropScience.



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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 this 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. The user assumes the risk to persons or property that arises from any such use of this product.

### Section 2: The Product

ADMIRE® 240 Flowable Systemic Insecticide, containing the active ingredient imidacloprid, is intended for the control of insect pests in a wide variety of vegetable crops, fruit crops, Christmas trees and as a seed piece treatment for potatoes.

## SAFETY AND HANDLING

### Section 3: Precautions, Protective Clothing and Equipment

#### KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing.

Applicators, other handlers and handlers of treated seed pieces must wear:

- Long-sleeved shirt and long pants
- Water-proof gloves
- Shoes plus socks

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

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Apply only in areas with adequate ventilation or in areas that are equipped to remove spray mist. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

**NOTE:** If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at : [www.croplife.ca](http://www.croplife.ca).

Section 4: Restricted Entry Interval
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Do not re-enter treated areas for 24 hours after foliar application of ADMIRE 240 Flowable Systemic Insecticide.

Section 5: First Aid and Toxicological Information
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#### FIRST AID

**IF SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Have a 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 the eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

#### TOXICOLOGICAL INFORMATION:

No specific antidote is available. Treat the patient symptomatically.

Section 6: Environmental Precautions and Information
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Keep out of lakes, streams, ponds or other aquatic systems. This product is highly toxic to aquatic invertebrates. Do not contaminate water when disposing of equipment wash water.

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.

This product is toxic to birds. Dispose of all excess and any spilled treated seed pieces by covering or incorporating into the soil. Left over treated seed pieces should be double sown around the headland, or buried away from water sources such as lakes, streams, ponds or other aquatic systems. Apply this product only in accordance with this label.

Section 7: Storage

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

Section 8: Disposal

Do not contaminate water, food, or feed by storage or disposal.

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:

- Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

Disposal of Unused, Unwanted Product: 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.

DIRECTIONS FOR USE

Read the entire DIRECTIONS FOR USE section before using ADMIRE 240 Flowable Systemic Insecticide.

Section 9: Crops, Pests, Application Rates and Methods

POTATOES

Pests	Application and Rate	Remarks
Colorado potato beetle, Aphids, Leafhoppers, Flea beetles	Soil Application 7.5-12 mL/100 m row  (see rate conversion chart for row spacing calculations)	Apply as a narrow band in-furrow. For best results, direct spray on the seed pieces or seed potatoes in the furrow. The length of control may vary due to climate and soil conditions. The higher rate is recommended when extended length of control is needed. Do not apply more than once per season as a soil application. Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following



		<p>treatment with ADMIRE 240 Flowable Systemic Insecticide soil application.</p> <p>ADMIRE 240 Flowable Systemic Insecticide provides extended control of aphids and potato leafhoppers.</p> <p>ADMIRE 240 Flowable Systemic Insecticide will aid in the early season suppression of over wintering potato flea beetle adults. Scout potato fields frequently, especially during the warmer part of the season, and if insect pest populations exceed the threshold established by local potato extension specialists, apply a recommended foliar insecticide with a different mode of action than ADMIRE 240 Flowable Systemic Insecticide.</p> <p>ADMIRE 240 Flowable Systemic Insecticide can be tankmixed with RIDOMIL GOLD 480 EC® for suppression of Pink Rot (<i>Phytophthora erythroseptica</i>). See RIDOMIL GOLD 480 EC label for use instructions and precautions.</p>
<p>Reduction in Numbers of larvae of the European Chafer</p>	<p>Soil Application: Field Drench</p> <p>1200 mL/ha</p>	<p>The need for and timing of application should be based on monitoring of the site, previous records or experiences, current season adult trapping or other methods.</p> <p>Apply just prior to or during egg hatch of the target pest.</p> <p>Apply to crop rows, headlands and other grassy areas around the field.</p> <p>Apply in 200 L of water per hectare.</p> <p>Do not apply more than once per season as a soil application.</p> <p>Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application.</p> <p>Avoid application to areas which are waterlogged or saturated, which will not allow penetration of the active ingredient into the plant root zone.</p> <p>Sufficient irrigation (e.g., 5 – 10 mm) should occur immediately (maximum 24 hours) after application to move the active ingredient to the root zone but avoid over watering (e.g., more than 20 mm).</p> <p>The treated area must be in such a condition that irrigation water will penetrate vertically into the soil profile, which will ensure an adequate distribution of the active ingredient.</p> <p>Avoid runoff or puddling of irrigation water following application.</p> <p>Avoid mowing grassy areas until after irrigation has occurred so that uniformity of application will not be affected</p>

<p>Colorado potato beetle, Aphids, Leafhoppers, Flea beetles</p>	<p>Seed Piece Treatment</p> <p>26-39 mL/100 kg seed pieces</p>	<p>Apply only in areas with adequate ventilation or in areas that are equipped to remove spray mist or dust.</p> <p>Apply specified dosage as a diluted spray onto seed-pieces using a shielded spray system that is well contained and will prevent the loss of any liquid.</p> <p>Do not dilute with any more than 3 parts water to 1 part ADMIRE 240 Flowable Systemic Insecticide. Agitate or stir spray solution as needed.</p> <p>For optimal insect control, good coverage of the seed piece is required.</p> <p>The length of control will vary depending on the rate used. Consult your local extension personnel, Bayer CropScience representative or dealer for information relevant to your area. The higher rate of ADMIRE 240 Flowable Systemic Insecticide is recommended when extended length of control is needed.</p> <p>ADMIRE 240 Flowable Systemic Insecticide provides early season control of over-wintering adult potato flea beetles.</p> <p>As part of the seed cutting and treating process, application of a fungicide registered for potato seed treatment or an inert absorbent ingredient is recommended.</p> <p>Plant seed-pieces as soon as possible after cutting and treating.</p> <p>Avoid prolonged exposure of ADMIRE 240 Flowable Systemic Insecticide -treated seed-pieces to sunlight. Do not use treated seed pieces for food, feed, or fodder.</p> <p>Do not apply any subsequent application of imidacloprid (i.e. ADMIRE 240 Flowable Systemic Insecticide in-furrow or foliar application) or other group 4 insecticide following ADMIRE 240 Flowable Systemic Insecticide potato seed piece treatment.</p> <p>Do not apply more than 1.165 L of ADMIRE 240 Flowable Systemic Insecticide (0.280 kg ai) per hectare per year. Thus for seeding rates higher than 2985 kg seed/ha, the higher application rate (39 ml/100 kg of seed) cannot be used. For seeding rates between 2985 kg seed/ha and 4480 kg seed/ha, ensure that the application rate does not exceed 1.165 L per hectare. The lower application rate (26 ml/100 kg) may be used for seeding rates up to 4480 kg seed/ha. Do not use this method of application for seeding rates higher than 4480 kg seed/ha.</p>
<p>Colorado potato beetle, Aphids, Leafhoppers (suppression)</p>	<p>Foliar Application</p> <p>200 mL/hectare</p>	<p>For optimal control, good coverage of the foliage is needed. Refer to sprayer manual for recommended water volumes, pressures and correct settings.</p> <p>A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season. Apply specified dosage as pest numbers begin to increase but before a damaging population becomes established. Scout fields and retreat if needed. For control of aphids: Two applications at least 7 days apart may be required to achieve control.</p> <p>Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil or seed treatment application of a Group 4 Insecticide.</p> <p>Pre-Harvest Interval (PHI): 7 days.</p>

CROP SUBGROUP 1-B: Root vegetables (except sugarbeet): Beet, garden; burdock, edible; carrot; celeriac; chervil, turnip-rooted; chicory; ginseng\*; horseradish; parsley, turnip-rooted; parsnip; radish; radish, oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret; turnip.

CROP SUBGROUP 1-D: Tuberous and corm vegetables (except potatoes): Arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; canna, edible; cassava, bitter and sweet; chayote, root; chufa; dasheen; ginger; leren; sweet potato\*; tanager; turmeric; yam bean; yam, true.

(\* NOTE: Refer to Ginseng and Sweet potato sections below for specific use directions.)

Pests	Application and Rate	Remarks
Aphids, Leafhoppers, Flea Beetles	Soil Application  7.5-12 mL/100 m row  (see rate conversion chart for row spacing calculations)	Do not apply more than once per season as a soil application. Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application. Do not exceed 1700 mL/ha as a soil application Apply specified dosage in one of the following methods: <ul style="list-style-type: none"> <li>• In-furrow spray (rate specified per 100 row-m);</li> <li>• soil injection or shanked-in 2 to 5 cm below seed depth during planting;</li> <li>• spray a narrow (5 cm or less) band directly (2 to 5 cm) below the eventual seed row in a bedding operation 14 or fewer days before planting.</li> </ul>
Reduction in Numbers of larvae of the European Chafer	Soil Application – Field Drench  1200 mL/ha	<p>Important Note: The rate applied affects the length of control. Use higher rates where infestations occur later in crop development, or where pest pressure is continuous.</p> <p>ADMIRE 240 Flowable Systemic Insecticide treated crops grown on very high organic matter soils (muck) may also require additional pest management control.</p> <p>The need for and timing of application should be based on monitoring of the site, previous records or experiences, current season adult trapping or other methods.</p> <p>Apply just prior to or during egg hatch of the target pest.</p> <p>Apply to crop rows, headlands and other grassy areas around the field.</p> <p>Apply in 200 L of water per hectare.</p> <p>Avoid application to areas which are waterlogged or saturated, which will not allow penetration of the active ingredient into the plant root zone.</p> <p>Sufficient irrigation (e.g., 5 – 10 mm) should occur immediately (maximum 24 hours) after application to move the active ingredient to the root zone but avoid over watering (e.g., more than 20 mm).</p> <p>The treated area must be in such a condition that irrigation water will penetrate vertically into the soil profile, which will ensure</p>

		<p>an adequate distribution of the active ingredient.</p> <p>Avoid runoff or puddling of irrigation water following application.</p> <p>Avoid mowing grassy areas until after irrigation has occurred so that uniformity of application will not be affected.</p> <p>Pre-Harvest Interval (PHI): 21 days.</p>
<p>Aphids Leafhoppers (suppression)</p>	<p>Foliar Application  200 mL/ha</p>	<p>Apply specified dosage as pest numbers begin to increase but before a damaging population becomes established. Scout fields and retreat if needed.</p> <p>Minimum interval between applications: 5 days</p> <p>A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season.</p> <p>Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide.</p> <p>Pre-Harvest Interval (PHI): 7 days.</p>

#### GINSENG – specific use directions

Apply to entire newly seeded ginseng beds before mulch is laid down.

Apply ADMIRE 240 Flowable Systemic Insecticide only once per ginseng garden life.

Allow 3 years between application of ADMIRE 240 Flowable Systemic Insecticide and harvest.

#### SWEET POTATO – specific use directions

Apply as a single soil drench application after transplanting and before crop foliage covers more than 25% of the planting bed to ensure adequate soil penetration.

DO NOT apply ADMIRE 240 Flowable Systemic Insecticide during flowering of the crop.

Apply ADMIRE 240 Flowable Systemic Insecticide only once per season.

Pre-Harvest Interval (PHI): 125 days.

CROP GROUP 2: Leaves of root and tuber vegetables: Beet, garden; burdock, edible; carrot; cassava, bitter and sweet; celeriac; chervil, turnip-rooted; chicory; dasheen (taro); parsnip; radish; radish, oriental; rutabaga; salsify, black; sweet potato; tanier (cocoyam); turnip; and yam, true.

Pests	Application and Rate	Remarks
<p>Aphids, Flea beetles, Leafhoppers</p>	<p>Soil Application  7.5-12 mL/100 m row</p>	<p>Do not apply more than once per season as a soil application. Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application.</p>

	(see rate conversion chart for row spacing calculations)	Do not exceed 1700 mL/ha as a soil application Apply specified dosage in one of the following methods: In-furrow spray (rate specified per 100 row-m) or, shanked-in 2 to 5 cm below seed depth during planting; In a narrow (5 cm or less) band directly (2 to 5 cm) below the eventual seed row in a bedding operation 14 or fewer days before planting. Important Note: The rate applied affects the length of control. Use higher rates where infestations occur later in crop development, or where pest pressure is continuous. ADMIRE 240 Flowable Systemic Insecticide treated crops grown on very high organic matter soils (muck) may also require additional pest management control. Pre-Harvest Interval (PHI): 21 days
Reduction in Numbers of larvae of the European Chafer	Soil Application Field Drench  1200 mL/ha	Specific Information for reduction in numbers of larvae of the European chafer. The need for and timing of application should be based on monitoring of the site, previous records or experiences, current season adult trapping or other methods. Apply just prior to or during egg hatch of the target pest. Apply to crop rows, headlands and other grassy areas around the field. Apply in 200 L of water per hectare. Avoid application to areas which are waterlogged or saturated, which will not allow penetration of the active ingredient into the plant root zone. Sufficient irrigation (e.g., 5 – 10 mm) should occur immediately (maximum 24 hours) after application to move the active ingredient to the root zone but avoid over watering (e.g., more than 20 mm). The treated area must be in such a condition that irrigation water will penetrate vertically into the soil profile, which will ensure an adequate distribution of the active ingredient. Avoid runoff or puddling of irrigation water following application. Avoid mowing grassy areas until after irrigation has occurred so that uniformity of application will not be affected.
Aphids, Leafhoppers (suppression)	Foliar Application  200 mL/ha	Apply specified dosage as pest numbers begin to increase but before a damaging population becomes established. Scout fields and retreat if needed. Minimum interval between applications: 5 days A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season. Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide. Pre-Harvest Interval (PHI): 7 days.

CROP SUBGROUP 4-A: Leafy greens subgroup of leafy vegetables (except Brassica) group: Amaranth; Arugula; Chervil; Chrysanthemum, edible-leaved and garland; Corn salad; Cress, garden and upland; Dandelion; Dock; Endive; Lettuce, head and leaf; Orach; Parsley; Purslane, garden and winter; Radicchio (red chicory); Spinach [including New Zealand and vine (Malabar spinach, Indian spinach)]; Watercress.

Pests	Application and Rate	Remarks
Aphids	<p>Transplant Tray Plug Drench</p> <p>10.2 mL/1000 plants</p>	<p>Drench plugs (transplants) prior to transplanting. Apply specified dosage in enough water to ensure ADMIRE 240 Flowable Systemic Insecticide reaches the root zone but does not leach out of the plug.</p> <p>CAUTION: Gloves must be worn at transplanting. Do not apply more than once per season as a soil application. Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application. Pre-Harvest Interval (PHI): 21 days.</p>
Aphids	<p>Soil Application</p> <p>6.0 mL/100 m row</p> <p>(see rate conversion chart for row spacing calculations)</p>	<p>Apply specified dosage in one of the following methods:</p> <p>In-furrow spray directed on or below seed. Apply specified dosage in 2000 L/ha of water as a narrow (5 cm or less) surface band over seed- line during planting. Application should be made with sufficient water to ensure incorporation into the root zone.</p> <p>Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting.</p> <p>Post-seeding drench, transplant-water drench, or hill drench; use higher water volumes - sufficient to thoroughly wet the soil. Subsurface side-dress on both sides of each row of seedlings or established transplants; apply in 200 L/ha of water. ADMIRE 240 Flowable Systemic Insecticide must be incorporated into root zone.</p> <p>Do not apply more than once per season as a soil application. Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application. Pre-Harvest Interval (PHI): 21 days.</p>
Aphids, Leafhoppers (suppression)	<p>Foliar Application</p> <p>200 mL/hectare</p>	<p>Apply specified dosage as pest numbers begin to increase but before a damaging population becomes established. Scout fields and retreat if needed.</p> <p>For optimal control, good coverage of the foliage is needed. Refer to sprayer manual for recommended water volumes, pressures and correct settings.</p> <p>A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season. Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment</p>

		application of a Group 4 Insecticide. Allow 5 days between foliar sprays. Pre-Harvest Interval (PHI): 7 days.
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CROP SUBGROUP 4-B: Leafy petioles vegetables of leafy vegetables (except Brassica) group: cardoon, celery, chinese celery (fresh leaves and stalk only), celtuce, florence fennel (including sweet anise, sweet fennel, finocchio), rhubarb, swiss chard.

Pests	Application and Rate	Remarks
Aphids	Soil Application  6 mL/100 m row  (see rate conversion chart for row spacing calculations)	Apply specified dosage in one of the following methods: <ul style="list-style-type: none"> <li>• In-furrow spray directed on or below seed.</li> <li>• Apply specified dosage in 2000 L/ha of water as a narrow (5 cm or less) surface band over seed- line during planting. Application should be made with sufficient water to ensure incorporation into the root zone.</li> <li>• Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting.</li> <li>• Post-seeding drench, transplant-water drench, or hill drench; use higher water volumes - sufficient to thoroughly wet the soil.</li> <li>• Subsurface side-dress on both sides of each row of seedlings or established transplants; apply in 200 L/ha of water. ADMIRE 240 Flowable Systemic Insecticide must be incorporated into root zone.</li> </ul> Do not apply more than once per season as a soil application. Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application. Pre-Harvest Interval (PHI): 45 days.

CROP GROUP 5: Brassica (cole) leafy vegetables: Broccoli, Broccoli raab (rapini), Brussels sprouts, Cabbage, Cauliflower, Cavalo broccolo, Chinese broccoli (gai lon), Chinese cabbage (bok choy), Chinese cabbage (napa), Chinese mustard cabbage (gai choy), Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens, Turnip greens.

Pests	Application and Rate	Remarks
Aphids	Soil Application  6.5 mL/100 m row  (see rate conversion chart for row spacing calculations)	Apply specified dosage in one of the following methods: <ul style="list-style-type: none"> <li>• In-furrow spray directed on or below seed.</li> <li>• Apply specified dosage in 2000 L/ha of water as a narrow (5 cm or less) surface band over seed- line during planting. Application should be made with sufficient water to ensure incorporation into the root zone.</li> </ul>

	spacing calculations)	<ul style="list-style-type: none"> <li>Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting.</li> <li>Post-seeding drench, transplant-water drench, or hill drench; use higher water volumes - sufficient to thoroughly wet the soil.</li> <li>Subsurface side-dress on both sides of each row of seedlings or established transplants; apply in 200 L/ha of water. ADMIRE 240 Flowable Systemic Insecticide must be incorporated into root zone.</li> </ul> <p>Do not apply more than once per season as a soil application. Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application. Pre-Harvest Interval (PHI): 21 days.</p>
Aphids, Leafhoppers (suppression)	Foliar Application  200 ml/ ha	<p>Ground application only. Add sufficient water to provide good coverage. Good coverage is required to obtain sufficient control. Apply when economic thresholds indicate that treatment is required A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season. Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide. Allow 7 days between applications. Pre-Harvest Interval (PHI): 7 days.</p>

**CROP GROUP 6: Legume vegetables (except dry soybean):** Edible Podded, Succulent Shelled Pea and Bean and Dried Shelled Pea and Bean: Bean (*Lupinus* spp., includes grain lupin, sweet lupin, white lupin, and white sweet lupin); Bean (*Phaseolus* spp., includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); Bean (*Vigna* spp., includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, Southern pea, urd bean, yardlong bean); Pea (*Pisum* spp., includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea); Other Beans and Peas Broad bean (fava), Chickpea (garbanzo bean), Guar, Jackbean, Lablab bean (hyacinth bean), Lentil, Pigeon pea, Soybean (immature seed), Sword bean.

Pests	Application and Rate	Remarks
Aphids	Soil Application  7.5 mL/100 m row  (see rate conversion	<p>Apply specified dosage in one of the following methods</p> <ul style="list-style-type: none"> <li>In-furrow spray directed on or below seed.</li> <li>Apply specified dosage in 2000 L/ha of water as a narrow (5 cm or less) surface band over seed- line during planting. Application should be made with sufficient</li> </ul>



	chart for row spacing calculations)	<p>water to ensure incorporation into the root zone.</p> <ul style="list-style-type: none"> <li>• Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting.</li> <li>• Post-seeding drench, transplant-water drench, or hill drench; use higher water volumes - sufficient to thoroughly wet the soil.</li> </ul> <p>Do not apply more than once per season as a soil application. Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application. Pre-Harvest Interval (PHI): 21 days.</p>
Aphids, Leafhoppers (suppression)	Foliar Application  200 mL/ha	<p>A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season. Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide. Minimum interval between applications: 7 days Pre-Harvest Interval (PHI): 7 days.</p>

CROP GROUP 8: Fruiting vegetables except cucurbits: Eggplant; Groundcherry; Okra; Pepino; Peppers (including all peppers i.e. bell, non-bell, hot, sweet, etc., and cultivars and/or hybrids of these); Tomatillo; Tomato (including cultivars and/or hybrids of this).

Pests	Application and Rate	Remarks
Colorado potato beetle, Aphids	Soil Application  7-12 mL/100 m row  (see rate conversion chart for row spacing calculations)	<p>Apply specified dosage in one of the following methods</p> <ul style="list-style-type: none"> <li>• In-furrow spray directed on or below seed.</li> <li>• Apply specified dosage in 2000 L/ha of water as a narrow (5 cm or less) surface band over seed- line during planting. Application should be made with sufficient water to ensure incorporation into the root zone.</li> <li>• Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting.</li> <li>• Post-seeding drench, transplant-water drench, or hill drench; use higher water volumes - sufficient to thoroughly wet the soil.</li> </ul> <p>Do not apply more than once per season as a soil application. Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application.</p>
Colorado potato beetle, Aphids, Leafhoppers	Foliar Application  200 mL/ha	<p>Ground application only For optimal control, good coverage of the foliage is needed. For best results, time application before a damaging population becomes established.</p>

(suppression)		<p>A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season. Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide.</p> <p>Allow at least 5 days between foliar applications.</p> <p>Pre-Harvest Interval (PHI): 7 days.</p>
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**CROP GROUP 9: Cucurbit vegetables:** Chayote (fruit); Chinese waxgourd (Chinese preserving melon); Citron melon; Cucumber; Gherkin; Gourd (edible, includes hyotan, cucuzza, hechima, Chinese okra); Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber); Muskmelon (hybrids and/or cultivars of Cucumis melo including true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon); Pumpkin; Squash (includes summer squash types such as: crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini, and winter squash types such as acorn squash, butternut squash, calabaza, Hubbard squash, spaghetti squash); Watermelon (includes hybrids and/or varieties of Citrullus lanatus).

Pests	Application and Rate	Remarks
Cucumber Beetles	<p>Soil Application</p> <p>18 mL/100 m row</p> <p>(see rate conversion chart for row spacing calculations)</p>	<p>Do not apply more than once per season as a soil application. Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application.</p> <p>Do not apply more than 1.165 L of ADMIRE 240 Flowable Systemic Insecticide per hectare per crop season.</p> <p>Scout cucurbit fields frequently, especially during the warmer part of the season, and if populations of cucumber beetle exceed the threshold established by local extension specialists, apply a recommended foliar insecticide.</p>
Aphids	<p>Soil Application</p> <p>7.5 mL/100 m of row</p> <p>(see rate conversion chart for row spacing calculations)</p>	<p>ADMIRE 240 Flowable Systemic Insecticide provides early season control of cucumber beetle populations in direct seeded or transplanted cucurbits.</p> <p>Apply specified dosage in one of the following methods</p> <ul style="list-style-type: none"> <li>• In-furrow spray directed on or below seed.</li> <li>• Apply specified dosage in 2000 L/ha of water as a narrow (5 cm or less) surface band over seed- line during planting. Application should be made with sufficient water to ensure incorporation into the root zone.</li> <li>• Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting.</li> <li>• Post-seeding drench, transplant-water drench, or hill drench; use higher water volumes - sufficient to thoroughly wet the soil.</li> </ul>

		Pre-Harvest Interval (PHI): 21 days.
Cucumber beetles	Transplant Water Application*  25 mL/1000 plants	Apply specified dosage into the planting hole shortly prior or at transplanting. Apply specified dosage in 150 mL of planting water per plant. Do not apply more than once per season as a soil application. Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application. * Do not use this application method on pickling cucumbers.

CROP GROUP 11: Pome fruit: Apple; Crabapples (Chinese apple, Chinese crab apple, Chinese flowering apple, Crab apple, Cutleaf crab apple, Florentine crab apple, Hall crab apple, Iowa crab apple, Japanese crab apple, Kai do crab apple, Manchurian crab apple, Paradise apple, Sargent's crab apple, Siberian crab apple, Soulard crab apple, Southern crab apple, Sweet crab apple, Tea crab apple, Toringa crab apple, Western Crabapple, Yunnan crab apple, and varieties and/or hybrids of these); Loquat; Mayhaw; Medlar; Pear; Oriental pear; Quince; Chinese quince; Tejocote, and all varieties and/or hybrids of these.

Pests	Application and Rate	Remarks
Aphids (except woolly apple)	Foliar Applications  230 mL/ha	Apply post-bloom only. Apply specified dosage as a dilute or concentrate foliar spray as needed after pollination is complete and bees have been removed from the orchard. Thorough uniform coverage of foliage is necessary for optimal control.
Leafhoppers	Foliar Applications  200 mL/ha	A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season. Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide. Pre-Harvest Interval (PHI): 7 days.
Mullein Bug, Tentiform leafminer*	Foliar Applications  380 mL/ha	*For first generation tentiform leafminer control, make first application as soon as pollination is complete and bees are removed from the orchard. Greatest tentiform leafminer control will result from the earliest possible application. For second-generation tentiform leafminer, optimal control of egg and early instar larvae is obtained from applications made early in the adult flight. A second application may be required 10 days later if severe pressure continues or if generations are overlapping. A single application may result in suppression only. ADMIRE 240 Flowable Systemic Insecticide will not control late stage larvae. Tentiform leafminer has developed resistance to other insecticides after repeated use. As with any insecticide, the use of ADMIRE

		240 Flowable Systemic Insecticide should conform to resistance management strategies established for the use area.
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CROP GROUP 12: Stone fruit: Apricot, Cherry (sweet and tart), Nectarine, Peach, Plum (includes Chickasaw, Damson, and Japanese), Plumcot, Prune (fresh and dried).

Pests	Application and Rate	Remarks
Aphids (except woolly apple)	Foliar Application  230 mL/ha	Ground application only (incl. use of airblast equipment). Apply post-bloom only. Apply specified dosage as a foliar spray after pollination is complete and bees have been removed from the orchard. Monitor insect populations. Consult provincial guidelines and local extension experts.
Leafhoppers	Foliar Application  200 mL/ha	Thorough uniform coverage of foliage is necessary for optimal control. Apply in a minimum spray volume of 500 L/ha. Refer to sprayer manual for recommended water volumes, spray pressures and correct settings. Scout fields and retreat if needed. A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season. Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide. Allow at least 7 days between applications. Pre-Harvest Interval (PHI): 7 days.
Western cherry fruit fly, Black cherry fruit fly  (Cherries only)	Foliar Application  230 mL/ha	Apply post-bloom only. Monitor for adult cherry fruit fly and apply as a foliar spray within 6 days of first fly emergence. Thorough uniform coverage of foliage is necessary for optimal control. Consult provincial guidelines and local extension experts. A maximum of five (5) foliar applications of ADMIRE 240 may be made per crop per year. Allow at least 10 days between applications. Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide. Pre-Harvest Interval (PHI): 7 days.

CROP SUBGROUP 13-A: Berry and small fruit – caneberry: blackberry; raspberry, red, black and wild; loganberry; cultivars and/or hybrids of these.

Pests	Application and Rate	Remarks
Reduction in numbers of larvae of the European chafer and larvae of Japanese beetle	Soil Application  Field Drench  1200 mL/ha	<p>Apply to ground around and under cane plantings, headlands and other grassy areas around and under cane plantings.</p> <p>The need for and timing of application should be based on monitoring of the site, previous records or experiences, current season adult trapping or other methods.</p> <p>Apply just prior to or during egg hatch of the target pest.</p> <p>Do not apply pre-bloom or during bloom or when bees are actively foraging.</p> <p>Apply in 200 L of water per hectare.</p> <p>Avoid application to areas which are waterlogged or saturated, which will not allow penetration of the active ingredient into the plant root zone.</p> <p>Sufficient irrigation (e.g., 5 – 10 mm) should occur immediately (maximum 24 hours) after application to move the active ingredient to the root zone but avoid over watering (e.g., more than 20 mm).</p> <p>The treated area must be in such a condition that irrigation water will penetrate vertically into the soil profile, which will ensure an adequate distribution of the active ingredient.</p> <p>Avoid runoff or puddling of irrigation water following application.</p> <p>Avoid mowing turf until after irrigation has occurred so that uniformity of application will not be affected.</p> <p>Do not apply more than once per season as a soil application.</p> <p>Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application.</p> <p>Pre-Harvest Interval (PHI): 14 days.</p>
Aphids, Leafhoppers (suppression)	Foliar Application  175 mL/ha	<p>Apply up to 3 times per season in 200 L of water as a foliar spray.</p> <p>Do not apply pre-bloom or during bloom or when bees are actively foraging.</p>
Raspberry Only: Caneborers, rednecked (suppression)	Foliar Application  467 mL/ha	<p>For suppression of caneborers, apply when evidence of caneborer activity is noted (wilted cane tips, swelling near base of canes, eggs in slits in base of canes).</p> <p>If multiple applications are necessary, allow at least 7 days between applications.</p> <p>Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide.</p> <p>Pre-Harvest Interval (PHI): 4 days.</p>

CROP SUBGROUP 13-B: Berry and small fruit – bushberry: Berry, aronia; Blueberry, highbush, and/or hybrids of these; Blueberry, lowbush; Currant, buffalo, black, and red; Elderberry; Gooseberry; Cranberry, highbush; Honeysuckle; Huckleberry; Jostaberry; and Juneberry (Service berry or Saskatoon berry).

Pests	Application and Rate	Remarks
Reduction in Numbers of larvae of the European chafer and larvae of Japanese beetle	Soil Application  Field Drench  1200 mL/ha	<p>The need for and timing of application should be based on monitoring of the site, previous records or experiences, current season adult trapping or other methods.</p> <p>Apply to ground around and under bushes and to grass- covered rows, row middles, drive lanes, headlands and other grassy areas in and around the field.</p> <p>Apply just prior to or during egg hatch of the target pest.</p> <p>Apply in 200 L of water per hectare.</p> <p>Avoid application to areas which are waterlogged or saturated, which will not allow penetration of the active ingredient into the plant root zone.</p> <p>Sufficient irrigation (e.g., 5 – 10 mm on turf) should occur within 24 hours after application to move the active ingredient to the root zone but avoid over watering (e.g., more than 20 mm on turf).</p> <p>The treated area must be in such a condition that irrigation water will penetrate vertically into the soil profile, which will ensure an adequate distribution of the active ingredient.</p> <p>Avoid runoff or puddling of irrigation water following application.</p> <p>Avoid mowing turf until after irrigation has occurred so that uniformity of application will not be affected.</p> <p>Do not apply more than once per season as a soil application.</p> <p>Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application.</p> <p>DO NOT apply ADMIRE 240 Flowable Systemic Insecticide during flowering of bushberries.</p> <p>Pre-Harvest Interval (PHI): 14 days.</p>
Aphids, Leafhoppers (suppression)	Foliar Application  175 mL/ha	<p>Ground application only</p> <p>Allow at least 7-10 days between applications.</p> <p>A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season.</p>
Blueberry maggot	Foliar Application  230 - 350 mL/ha	<p>Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide.</p>
Japanese Beetle Adult	Foliar Application  175-230 mL/ha	<p>For optimal control, apply product in sufficient water for good coverage of foliage (up to 1000 L spray / ha).</p> <p>Apply post-bloom after bees have been removed.</p> <p>In blueberries, apply as a foliar spray for control of aphids in</p>

		<p>fields where blueberry scorch virus is a potential problem. Monitor for aphids, and apply as a foliar spray once the aphid population has started to build up but before winged aphids are seen. Consult provincial guidelines and local extension experts. For rate ranges, use the higher rate and higher spray volumes for dense crop canopies or high pest pressure. Pre-Harvest Interval (PHI): 3 days.</p>
<p>For Juneberry (Serviceberry or Saskatoon berry only):</p> <p>Suppression of Woolly elm aphid, Woolly apple aphid</p>	<p>Soil Application</p> <p>Field drench</p> <p>0.125 mL/plant</p>	<p>The need for and timing of application should be based on monitoring of the site, previous records or experiences, current season adult trapping or other methods. Do not apply pre-bloom or during bloom or when bees are actively foraging. Apply when aphid migration from elm to Saskatoon berry is 75-100% complete (early to mid-July). Apply to the base of the shrubs as a surface band spray over the width of the root crown in 200 L of water per hectare. Avoid application to areas which are waterlogged or saturated, which will not allow penetration of the active ingredient into the plant root zone. Sufficient irrigation (e.g., 5 – 10 mm) should occur immediately (maximum 24 hours) after application to move the active ingredient to the root zone but avoid over watering (e.g., more than 20 mm). The treated area must be in such a condition that irrigation water will penetrate vertically into the soil profile, which will ensure an adequate distribution of the active ingredient. Avoid runoff or puddling of irrigation water following application. Do not apply more than once per season as a soil application. Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application. Pre-Harvest Interval (PHI): 14 days.</p>

CROP SUBGROUP 13-F: Berry and small fruit – vine including grapes: Grape, American bunch, Muscadine, and Vinifera; Gooseberry; Kiwifruit, hardy; Maypop; Schisandra berry.

Pests	Application and Rate	Remarks
Leafhoppers	<p>Soil Application</p> <p>7.5-12 mL/100 m of row</p> <p>(see rate conversion chart for row spacing calculations)</p>	<p>Apply specified dosage in one of the following methods:</p> <ul style="list-style-type: none"> <li>Subsurface side-dress shanked into the root-zone on both sides of the plants followed by irrigation;</li> <li>Hill drench in sufficient water to insure incorporation into the root-zone followed by irrigation.</li> </ul> <p>Do not apply more than once per season as a soil</p>

		<p>application.</p> <p>Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application.</p> <p>For optimum results, make application(s) between bud-break and the pea-berry stage.</p> <p>Pre-Harvest Interval (PHI): 30 days.</p>
Leafhoppers	<p>Foliar Application</p> <p>200 mL/ha</p>	<p>A maximum of two (2) foliar applications of ADMIRE 240 may be made per crop per year.</p> <p>Minimum interval between applications: 14 days.</p> <p>Pre-Harvest Interval (PHI): 0 day.</p>

CROP SUBGROUP 13-G: Berry and small fruit – low growing berries including strawberries: Bearberry; Bilberry; Blueberry, lowbush; Cloudberry; Lingonberry; Muntries; Partridgeberry; Strawberry.

(NOTE: Refer to Cranberry section below for specific use directions.)

Pests	Application and Rate	Remarks
Aphids	<p>Soil Application</p> <p>7.5-12 mL/100 m of row</p> <p>(see rate conversion chart for row spacing calculations)</p>	<p>Do not apply immediately prior to bud opening or during bloom or when bees are actively foraging.</p> <p>Apply specified dosage in 2000 L/ha of water as a surface band directly to the plant row. Application should be made with sufficient water to ensure incorporation into the root zone.</p> <p>The rate applied affects the length of control. Use higher rates where infestations may occur later in crop development or where pest pressure is high or continuous.</p> <p>Do not apply more than once per season as a soil application.</p> <p>Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application.</p> <p>For aphids, apply specified dosage of ADMIRE 240 Flowable Systemic Insecticide when growth begins in the spring.</p> <p>Aphid populations may be very low, but treatment is still necessary before formation and dispersal of winged aphids.</p> <p>Scout fields frequently, especially during the warmer part of the season, and if populations of aphids exceed the threshold established by local extension specialists, apply a recommended foliar insecticide with a different mode of action than ADMIRE 240 Flowable Systemic Insecticide.</p> <p>Pre-Harvest Interval (PHI): 30 days.</p>
Reduction in Numbers of	Soil Application	<p>For strawberries, apply to fields before mulch is laid down.</p> <p>Apply just prior to or during egg hatch of the target pest.</p>



larvae of the European chafer	Field Drench  1200 mL/ha	Apply in 200 L of water per hectare. Avoid application to areas which are waterlogged or saturated, which will not allow penetration of the active ingredient into the plant root zone. Sufficient irrigation (e.g., 5 – 10 mm) should occur immediately (maximum 24 hours) after application to move the active ingredient to the root zone but avoid over watering (e.g., more than 20 mm). The treated area must be in such a condition that irrigation water will penetrate vertically into the soil profile, which will ensure an adequate distribution of the active ingredient. Avoid runoff or puddling of irrigation water following application. Do not apply more than once per season as a soil application. Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application. Pre-Harvest Interval (PHI): 30 days.
Aphids, Leafhoppers (suppression)	Foliar Applications  175 mL/ha	Minimum interval between applications: 5 days A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season. Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide. Do not apply immediately prior to bud opening or during bloom or when bees are actively foraging. ADMIRE 240 Flowable Systemic Insecticide may be applied by ground application only. Pre-Harvest Interval (PHI): 7 days.

CRANBERRY (*Vaccinium macrocarpon*)

Pests	Application and Rate	Remarks
Reductions in numbers of larvae of the European chafer	Soil Application – Field Drench  1200 mL/ha	Apply a single application during active egg-laying period of beetles. Apply just prior to or during egg hatch of the target pest. Apply in 200 L of water per hectare. Avoid application to areas which are waterlogged or saturated, which will not allow penetration of the active ingredient into the plant root zone. Sufficient irrigation (e.g., 5 – 10 mm) should occur immediately (maximum 24 hours) after application to move the active ingredient to the root zone but avoid over watering (e.g., more than 20 mm).

		<p>The treated area must be in such a condition that irrigation water will penetrate vertically into the soil profile, which will ensure an adequate distribution of the active ingredient. Avoid runoff or puddling of irrigation water following application.</p> <p>Do not apply more than once per season as a soil application. Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application.</p> <p>Pre-Harvest Interval (PHI): 30 days.</p>
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CROP GROUP 14: Tree nuts plus Pistachio Including: Almond, Beechnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Pistachio, Walnut [black and English (Persian)].

Pests	Application and Rate	Remarks
Aphids (except woolly apple)	Foliar Application 230 mL/ha	<p>Minimum interval between applications: 6 days</p> <p>A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season.</p> <p>Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide.</p>
Leafhoppers (suppression)	Foliar Application 200 mL/ha	<p>Do not apply immediately prior to bud opening or during bloom or when bees are actively foraging.</p> <p>ADMIRE 240 Flowable Systemic Insecticide may be applied by ground application only.</p> <p>Pre-Harvest Interval (PHI): 7 days.</p>

CROP SUBGROUP 19-A: Herbs: Angelica, Balm (lemon balm), Basil (fresh and dried), Borage, Bumet, Camomile, Catnip, Chervil (dried), Chinese chive, Chive, Clary, Coriander (cilantro or Chinese parsley leaves), Costmary, Culantro (leaf), Curry (leaf), Dillweed, Horehound, Hyssop, Lavender, Lemongrass, Lovage (leaf), Marigold, Marjoram, Nasturtium, Parsley (dried), Pennyroyal, Rosemary, Rue, Sage, Savory (summer and winter), Sweet bay (bay leaf), Tansy, Tarragon, Thyme, Wintergreen, Woodruff, Wormwood.

Pests	Application and Rate	Remarks
Aphids	Soil Application 6 mL/100 m of row (see rate conversion	<p>Apply specified dosage in one of the following methods:</p> <ul style="list-style-type: none"> <li>In-furrow spray during planting directed on or below seed;</li> <li>In-furrow spray or transplant-water drench during setting or transplanting;</li> </ul>

	chart for row spacing calculations)	<ul style="list-style-type: none"> <li>Shanked-into or below eventual seed-line.</li> </ul> <p>Not all crops and/or varieties listed above have been tested for phytotoxic effects. Without specific knowledge about a particular crop and variety, Bayer CropScience strongly recommends that only small areas or numbers of plants of each be treated and evaluated prior to commercial use.</p> <p>Do not apply more than once per season as a soil application.</p> <p>Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application.</p> <p>Pre-Harvest Interval (PHI): 14 days.</p>
Aphids, Leafhoppers (suppression)	Foliar Application 200 mL/ha	<p>A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season.</p> <p>Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide.</p> <p>Minimum interval between applications: 5 days</p> <p>Do not apply immediately prior to bud opening or during bloom or when bees are actively foraging.</p> <p>ADMIRE 240 Flowable Systemic Insecticide may be applied by ground application only.</p> <p>Not all crops and/or varieties listed above have been tested for phytotoxic effects. Without specific knowledge about a particular crop and variety, Bayer CropScience strongly recommends that only small areas or numbers of plants of each be treated and evaluated prior to commercial use.</p> <p>Pre-Harvest Interval (PHI): 7 days.</p>

## HOP

Pests	Application and Rate	Remarks
Aphids	Foliar Application 230 mL/ha	<p>Minimum interval between applications: 21 days</p> <p>A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season.</p> <p>Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide.</p> <p>Pre-Harvest Interval (PHI): 28 days</p>

## PEANUT

Pests	Application and Rate	Remarks
Aphids, Leafhoppers (suppression)	Foliar Application  200 mL/ha	Minimum interval between applications: 5 days A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season. Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide. Pre-Harvest Interval (PHI): 14 days.
Aphids	Soil Application  7.5 mL/100 m of row  (see rate conversion chart for row spacing calculations)	Apply specified dosage in one of the following methods <ul style="list-style-type: none"> <li>• In-furrow spray directed on or below seed.</li> <li>• Apply specified dosage in 200 L/ha of water as a narrow (5 cm or less) surface band over seed- line during planting. Application should be made with sufficient water to ensure incorporation into the root zone.</li> <li>• Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting.</li> <li>• Post-seeding drench, transplant-water drench, or hill drench; use higher water volumes - sufficient to thoroughly wet the soil.</li> </ul> Do not apply more than once per season as a soil application. Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application.

## GLOBE ARTICHOKE

Pests	Application and Rate	Remarks
Aphids, Leafhoppers (suppression)	Foliar Application  200 mL/ha	Minimum interval between applications: 7 days A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season. Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide. Pre-Harvest Interval (PHI): 7 days.

## TOBACCO

Pests	Application and Rate	Remarks
Aphids, Flea beetles	Soil Application  8.5 mL/100 m of row  (see rate conversion chart for row spacing calculations)	Apply specified dosage in one of the following methods <ul style="list-style-type: none"> <li>• In-furrow spray or transplant water drench during setting. Use higher water volumes - sufficient to thoroughly wet the soil.</li> <li>• Subsurface side-dress on both sides of each row of seedlings or established transplants; apply in 200 L/ha of water. ADMIRE Flowable Systemic Insecticide must be incorporated into root zone.</li> </ul> Do not apply more than once per season as a soil application. Do not apply any subsequent application of a Group 4 Insecticide (for example, in-furrow, soil or foliar application) following treatment with ADMIRE 240 Flowable Systemic Insecticide soil application.
Aphids	Foliar Application  200 mL/ha	Minimum interval between applications: 7 days. A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season. Do not make a foliar ADMIRE 240 Flowable Systemic Insecticide application following a soil, in-furrow or seed treatment application of a Group 4 Insecticide. Pre-Harvest Interval (PHI): 14 days.

## CHRISTMAS TREES (*Abies balsamea* and *A. fraseri*)

Pests	Application and Rate	Remarks
Balsam twig aphids	Foliar application  250 mL/ha	Ground application only including airblast equipment. Apply specified rate as broadcast or directed foliar spray in the spring, when the first generation of aphids appear. Two applications may be required to achieve control of persistent aphid populations. Scout fields and retreat if needed. Allow 7 days between applications. Do not apply ADMIRE 240 Flowable Systemic Insecticide to Christmas trees using hand-held equipment.

## RATE CONVERSION CHART (Row spacing calculations for soil applications)

Rate of Product (mL per ha) based on specified row spacing								
Rate (mL per 100 m row)	Row spacing							
	30 cm	45 cm	60 cm	75 cm	90 cm	120 cm	150 cm	180 cm
6	2000	1333	1000	800	667	500	400	333
6.5	2167	1444	1083	867	722	542	433	361
7	2333	1556	1167	933	778	583	467	389
7.5		1667	1250	1000	833	625	500	417
8.5		1889	1417	1133	944	708	567	472
12			2000	1600	1333	1000	800	667
18					2000	1500	1200	1000

### Section 10: Application Instructions and Limitations

Do not apply by air.

Do not apply when wind speeds are greater than 12-15 km per hour.

Do not apply product or plant treated seed pieces within 15 metres of well-heads or aquatic systems, including marshes, ponds, ditches, streams, lakes, etc.

For application by air blast equipment, do not apply within 40 metres of well-heads or aquatic systems, including marshes, ponds, ditches, streams, lakes, etc.

Do not apply to terrains where there is a potential for surface run-off to enter aquatic systems.

Do not apply product or plant treated seed pieces when heavy rainfall is forecast for the next 48 hours.

Do not mix, load or clean spray equipment within 30 metres of well-heads or aquatic systems.

Do not apply this product through any type of irrigation system.

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of ADMIRE 240 Flowable Systemic Insecticide in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Spray drift management recommendations: The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator. Avoiding applications when wind direction is toward the aquatic area can reduce risk of exposure to sensitive aquatic areas.

Restrictions during temperature inversions: Do not make any applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however if fog is not present, inversions can also be identified by the movement of smoke from a ground source. Smoke that layers and moves laterally in a

concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical mixing.

Airblast (air assist) specific recommendations in orchards: Airblast sprayers carry droplets into the canopy of trees/bushes via a radially, or laterally directed air stream.

The following specific drift management practices should be followed:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy;
- Block off upward pointed nozzles when there is no overhanging canopy;
- Use only enough air volume to penetrate the canopy and provide good coverage;
- Do not allow the spray to go beyond the edge of the cultivated area (i.e., turn off sprayer when turning at end rows);
- Only spray inward, toward the orchard, for applications to the outside rows.

#### Section 11: Mixing Instructions

To prepare the spray, add a portion of the required amount of water to the spray tank and with agitation, add ADMIRE 240 Flowable Systemic Insecticide. Complete filling the tank with balance of water needed. Maintain sufficient agitation during both mixing and application.

#### Section 12: Rotational Crops

Treated areas may be replanted with any crop specified on an imidacloprid label, or any crop for which a tolerance exists for the active ingredient, as soon as practical following the last application.

Rotation of fields treated with ADMIRE 240 Flowable Systemic Insecticide to cereal grains (wheat, barley, oats) is acceptable after a minimum plant-back interval of 30 days and to peas and beans (including fababeans, soybeans, adzuki beans, mung beans, lima beans, scarlet runners, dry common beans, snap common beans), after a minimum plant-back interval of 9 months. Rotation to all other food and feed crops will require that a 12 month plant-back interval be observed. Green manure and other cover crops not intended for human or animal consumption are acceptable rotational crops which do not require a plant-back interval following treatment. Do not graze or harvest such cover crops for food or feed.

Imidacloprid is persistent and has a high potential for carryover; it is not recommended that this product be used in fields treated with ADMIRE 240 Flowable Systemic Insecticide during the previous season.

#### Section 13: Resistance Management Recommendations

For resistance management, please note that ADMIRE 240 Flowable Systemic Insecticide contains a Group 4 insecticide. Any insect population may contain individuals naturally resistant to ADMIRE 240 Flowable Systemic 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 fields. 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 ADMIRE 240 Flowable Systemic Insecticide or other Group 4 insecticides with different groups that control the same pests in a field.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Before spraying ADMIRE 240 Flowable Systemic Insecticide, correctly identify the pest and ensure economic and agronomic thresholds are met as recommended by local provincial or IPM specialists.
- 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 Bayer CropScience Inc. via internet at [www.bayercropscience.ca](http://www.bayercropscience.ca) or phone 1-888-283-6847.

®ADMIRE is a registered trademark of Bayer CropScience.





**\*\*CARTON LABEL\*\***

GROUP	4	INSECTICIDE
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## GENESIS™ 240 Flowable Systemic Insecticide

Seed treatment for use on potatoes to control Colorado Potato Beetle, Potato Leafhopper, Aphids, and overwintering adult Potato flea beetles.

AGRICULTURAL

GUARANTEE: Imidacloprid ..... 240 g/L

Contains 1,2-benzisothiazolin-3-one at 0.1% or 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0017% and 2-methyl-4-isothiazolin-3-one at 0.0006% as preservatives.

REGISTRATION NUMBER 27349 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN



CAUTION

POISON

SHAKE WELL BEFORE USING

FOR ON FARM USE ONLY

NET CONTENTS: 4 X 3.78 Litres

Product Information: 1 888 283 6847

Bayer CropScience Inc.  
Suite 200, 160 Quarry Park Blvd. S.E.  
Calgary, Alberta T2C 3G3



**\*\*CONTAINER LABEL\*\***

GROUP	4	INSECTICIDE
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**GENESIS™ 240 Flowable Systemic Insecticide**

Seed treatment for use on potatoes to control Colorado Potato Beetle, Potato Leafhopper, Aphids, and overwintering adult Potato flea beetles.

**AGRICULTURAL**

**GUARANTEE:** Imidacloprid ..... 240 g/L

Contains 1,2-benzisothiazolin-3-one at 0.1% or 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0017% and 2-methyl-4-isothiazolin-3-one at 0.0006% as preservatives.

**REGISTRATION NUMBER 27349 PEST CONTROL PRODUCTS ACT**

**READ THE LABEL AND ATTACHED BOOKLET BEFORE USING**

**KEEP OUT OF REACH OF CHILDREN**



**CAUTION**

**POISON**

**SHAKE WELL BEFORE USING**

**FOR ON FARM USE ONLY**

**NET CONTENTS: 1, 3.78 Litres**

**Product Information: 1 888 283 6847**

**Bayer CropScience Inc.  
Suite 200, 160 Quarry Park Blvd. S.E.  
Calgary, Alberta T2C 3G3**

## PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing.

### APPLICATORS AND OTHER HANDLERS MUST WEAR:

- Long-sleeved shirt and long pants
- Water-proof gloves
- Shoes plus socks

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

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Apply only in areas with adequate ventilation or in areas that are equipped to remove spray mist. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. **HANDLERS OF TREATED SEED MUST WEAR THE PERSONAL PROTECTIVE EQUIPMENT LISTED ABOVE.**

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca)

## ENVIRONMENTAL HAZARDS

This product is toxic to wildlife. Keep out of lakes, streams, ponds, or other aquatic systems. Do not contaminate water when disposing of equipment wash waters. Apply this product only in accordance with this label. Dispose of all excess and any spilled treated seed pieces by covering or incorporating into the soil. Left over treated seed should be doublesown around the headland, or buried away from water sources such as lakes, streams, ponds or other aquatic systems.

## FIRST AID

**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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** No specific antidote is available. Treat the patient symptomatically.

## **STORAGE AND DISPOSAL**

**PESTICIDE STORAGE:** Store in cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children, preferably in a locked storage area.

**DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal.

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.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. 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.

**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. The user assumes the risk to persons or property that arises from any such use of this product.



**\*\*BOOKLET\*\***

GROUP	4	INSECTICIDE
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## GENESIS™ 240 Flowable Systemic Insecticide

Seed treatment for use on potatoes to control Colorado Potato Beetle, Potato Leafhopper, Aphids, and overwintering adult Potato flea beetles.

AGRICULTURAL

GUARANTEE: Imidacloprid ..... 240 g/L

Contains 1,2-benzisothiazolin-3-one at 0.1% or 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0017% and 2-methyl-4-isothiazolin-3-one at 0.0006% as preservatives.

REGISTRATION NUMBER 27349 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN



CAUTION

POISON

SHAKE WELL BEFORE USING

FOR ON FARM USE ONLY

NET CONTENTS: 1, 3.78 Litres

Product Information: 1 888 283 6847

Bayer CropScience Inc.  
Suite 200, 160 Quarry Park Blvd. S.E.  
Calgary, Alberta-T2C 3G3

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. The user assumes the risk to persons or property that arises from any such use of this product.

## DIRECTIONS FOR USE

Read the entire DIRECTIONS FOR USE before using GENESIS 240 Flowable Systemic Insecticide.

Do not mix, load or clean application equipment within 30 metres of well-heads or aquatic systems. This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of GENESIS 240 Flowable Systemic Insecticide in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

MIXING INSTRUCTIONS: To prepare the spray, add a portion of the required amount of water to the spray tank and with agitation, add GENESIS 240 Flowable Systemic Insecticide. Complete filling the tank with balance of water needed. Maintain sufficient agitation during both mixing and application.

Do not plant treated seed pieces within 15 metres of well-heads or aquatic systems, including marshes, ponds, ditches, streams, lakes etc.

ROTATIONAL CROPS: Treated areas may be replanted with any crop specified on an imidacloprid label, or any crop for which a tolerance exists for the active ingredient, as soon as practical following the last application.

Rotation of fields treated with GENESIS 240 Flowable Systemic Insecticide to cereal grains (wheat, barley, oats) is acceptable after a minimum plant-back interval of 30 days and to peas and beans (including fababeans, soybeans, adzuki beans, mung beans, lima beans, scarlet runners, dry common beans, snap common beans) is acceptable after a minimum plant-back interval of 9 months. Rotation to all other food and feed crops will require a 12 month plant-back interval be observed. Green manure and other cover crops not intended for human or animal consumption are acceptable rotational crops which do not require a plant-back interval following treatment. Do not graze or harvest such cover crops for food or feed.

Imidacloprid is persistent and has a high potential for carryover; it is not recommended that this product be used in fields treated with GENESIS 240 Flowable Systemic Insecticide or ADMIRE 240 F Insecticide during the previous season.

## RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that GENESIS 240 Flowable Systemic Insecticide contains a Group 4 insecticide. Any insect population may contain individuals naturally resistant to GENESIS 240 Flowable Systemic 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 fields. 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 GENESIS 240 Flowable Systemic Insecticide or other Group 4 insecticides with different groups that control the same pests in a field.
- Insecticide use should be based on an IPM 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 Bayer CropScience Inc. toll-free at 1-888-283-6847.

#### SEED-PIECE TREATMENT ON POTATOES - GENERAL INFORMATION:

GENESIS 240 Flowable Systemic Insecticide is a systemic insecticide for use on potatoes to control a variety of insect pests. GENESIS 240 Flowable Systemic Insecticide controls Colorado potato beetle, potato leafhopper, and aphids, including green peach, buckthorn, foxglove, and potato aphid. GENESIS 240 Flowable Systemic Insecticide also provides control of over-wintering adult potato flea beetles.

RECOMMENDED APPLICATIONS			
CROP	PEST	DOSAGE GENESIS 240	REMARKS
Potato	<p>Colorado potato beetle</p> <p>Potato leafhopper</p> <p>Potato flea beetle</p> <p>Aphids (including green peach, buckthorn, foxglove, and potato aphid)</p>	<p>SEED PIECE TREATMENT</p> <p>26-39 mL per 100 kg seed pieces</p>	<p>Apply only in areas with adequate ventilation or in areas that are equipped to remove spray mist or dust.</p> <p>Apply specified dosage as a diluted spray onto seed-pieces using a shielded spray system that is well contained and will prevent the loss of any liquid.</p> <p>Do not dilute with any more than 3 parts water to 1 part GENESIS 240 Flowable Systemic Insecticide. Agitate or stir spray solution as needed.</p> <p>For optimal insect control, good coverage of the seed piece is required.</p> <p>The length of control will vary depending on the rate used. Consult your local extension personnel, Bayer CropScience Inc. representative or dealer for information relevant to your area. The higher rate of GENESIS 240 Flowable Systemic Insecticide is recommended when extended length of control is needed.</p> <p>Genesis 240 Flowable Systemic Insecticide provides early season control of overwintering adult potato flea beetles.</p> <p>As part of the seed cutting and treating process, application of a fungicide registered for potato seed treatment or an inert absorbent ingredient is recommended.</p> <p>Plant seed-pieces as soon as possible after cutting and treating.</p> <p>Avoid prolonged exposure of GENESIS 240 Flowable Systemic Insecticide-treated seed-pieces to sunlight. Do not use treated seed pieces for food, feed, or fodder.</p> <p>Do not apply any subsequent application of imidacloprid (i.e. ADMIRE 240 F in-furrow or foliar application) or other group 4 insecticide following GENESIS 240 Flowable Systemic Insecticide potato seed-piece treatment.</p> <p>Do not apply more than 1.165 L Genesis 240 Flowable Systemic Insecticide (0.280 kg ai) per hectare per year. Thus for seeding rates higher than 2985 kg seed/ha, the higher application rate (39 mL/100 kg of seed) can not be used. For seeding rates between 2985 kg seed/ha and 4480 kg seed/ha, ensure that the application rate does not exceed 1.165 L per hectare. The lower application rate (26 mL/100 kg) may be used for seeding rates up to 4480 kg seed/ha. Do not use this method of application for seeding rates higher than 4480 kg seed/ha.</p>



## PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing.

### APPLICATORS AND OTHER HANDLERS MUST WEAR:

- Long-sleeved shirt and long pants
- Water-proof gloves
- Shoes plus socks

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

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Apply only in areas with adequate ventilation or in areas that are equipped to remove spray mist. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. **HANDLERS OF TREATED SEED MUST WEAR THE PERSONAL PROTECTIVE EQUIPMENT LISTED ABOVE.**

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca)

## ENVIRONMENTAL HAZARDS

This product is toxic to wildlife. Keep out of lakes, streams, ponds, or other aquatic systems. Do not contaminate water when disposing of equipment wash waters. Apply this product only in accordance with this label. Dispose of all excess and any spilled treated seed pieces by covering or incorporating into the soil. Left over treated seed should be doublesown around the headland, or buried away from water sources such as lakes, streams, ponds or other aquatic systems.

## FIRST AID

**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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: No specific antidote is available. Treat the patient symptomatically.

#### STORAGE AND DISPOSAL

PESTICIDE STORAGE: Store in cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children, preferably in a locked storage area.

DISPOSAL: Do not contaminate water, food, or feed by storage or disposal.

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.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. 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.

Genesis™ is a trademark of Bayer CropScience.

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12-JAN-2011  
2007-8916

GROUP	4	INSECTICIDE
GROUP	M	FUNGICIDE

## GENESIS™ MZ

Potato Seed-Piece Treatment

INSECTICIDE-FUNGICIDE

Seed applied treatment for use on potatoes to control Colorado potato beetle, potato leafhopper, aphids and overwintering adult flea beetles. Controls *Fusarium* (dry rot).

FOR ON FARM USE ONLY.

DUST

AGRICULTURAL

GUARANTEE:

Imidacloprid.....1.25%

Mancozeb:.....6.0%

CAUTION - EYE IRRITANT

READ THE LABEL BEFORE USING

REGISTRATION NO. 28159 PEST CONTROL PRODUCTS ACT

Bayer CropScience Inc.  
200-160 Quarry Park Blvd. S.E.  
Calgary, Alberta T2C 3G3

Product Information: 1 888 283 6847

NET CONTENTS: 10kg, 15kg, 18.144kg, 20 kg

Genesis™ is a trademark of Bayer CropScience.

## GENERAL INFORMATION:

GENESIS MZ is an insecticide and fungicide seed-piece treatment for use on potatoes to control certain insects and diseases. GENESIS MZ controls Colorado potato beetle, potato leafhopper, and aphids including green peach, buckthorn, foxglove and potato aphids. GENESIS MZ also provides control of overwintering adult potato flea beetles. GENESIS MZ controls Fusarium Dry Rot (*Fusarium spp.*).

## DIRECTIONS FOR USE:

Apply 500 g of GENESIS MZ per 100 kilograms of cut seed pieces for control of Colorado potato beetle, potato leafhopper, aphids and control of over wintering adult potato flea beetles. This rate will also suppress Fusarium Dry Rot (*Fusarium spp.*).

Apply 750 g of GENESIS MZ per 100 kilograms of cut seed pieces for control of Colorado potato beetle, potato leafhopper, aphids and control of over wintering adult potato flea beetles. This rate will also control Fusarium Dry Rot (*Fusarium spp.*).

Apply using a seed dust metering applicator so that cut seed-pieces are thoroughly covered with the mixture. Thoroughly clean and sanitize cutting machines, knives, trays, tables, barrels, equipment, trucks, and planters before cutting and planting seed-pieces. Plant seed-pieces as soon as possible after cutting and treating. For optimal control of insects and diseases, good coverage of the seed-piece is required.

The length of insect control will vary depending on the rate used. Consult your local extension personnel, Bayer CropScience representative or dealer for information relevant to your area. The higher rate of GENESIS MZ is recommended when extended length of insect control is needed.

## USE LIMITATIONS:

Do not mix, load or clean application equipment within 30 metres of well-heads or aquatic systems. This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of GENESIS MZ in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Avoid prolonged exposure of GENESIS MZ-treated seed-pieces to sunlight.

Do not use treated seed-pieces for food, feed, or fodder.

Do not apply any subsequent application of imidacloprid (i.e. ADMIRE® 240 Flowable Systemic Insecticide in-furrow or foliar application) or other group 4 insecticide following GENESIS MZ potato seed-piece treatment.

Do not apply more than 22.4 kg of GENESIS MZ (0.280 kg imidacloprid) per hectare per year. Thus for seeding rates higher than 2985 kg seed/ha, the highest application rate (750 g/100 kg of seed) can not be used. For seeding rates between 2985 kg seed/ha and 4480 kg seed/ha, ensure that the application rate does not exceed 22.4 kg of Genesis MZ per hectare. The lower application rate

(500 g/100 kg of seed) may be used for seeding rates up to 4480 kg seed/ha. Do not use GENESIS MZ for seeding rates higher than 4480 kg seed/ha.

Under high insect pressures, a foliar insecticide may be required, therefore monitor crop regularly for insect infestation levels.

A limit of 40,000 kg potato seed pieces may be treated per day on farm.

#### ROTATIONAL CROPS:

Treated areas may be replanted with any crop specified on an imidacloprid label, or any crop for which a tolerance exists for the active ingredient, as soon as practical following the last application.

Rotation of fields treated with GENESIS MZ to cereal grains (wheat, barley, oats) is acceptable after a minimum plant-back interval of 30 days and to peas and beans (including faba beans, soybeans, adzuki beans, mung beans, lima beans, scarlet runners, dry common beans, snap common beans) is acceptable after a minimum plant-back interval of 9 months. Rotation to all other food and feed crops will require a 12 month plant-back interval be observed. Green manure and other cover crops not intended for human or animal consumption are acceptable rotational crops which do not require a plant-back interval following treatment. Do not graze or harvest such cover crops for food or feed.

Imidacloprid is persistent and has a high potential for carryover; it is not recommended that this product be used in fields treated with GENESIS MZ, or ADMIRE® 240 Flowable Systemic Insecticide during the previous season.

#### RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that GENESIS MZ contains both a Group 4 insecticide and a Group M fungicide. Any insect or fungal population may contain individuals naturally resistant to GENESIS MZ and other Group 4 insecticides or Group M fungicides. A gradual or total loss of pest control may occur over time if these insecticides and fungicides are used repeatedly in the same fields. 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 and fungicide resistance:

- Where possible, rotate the use of GENESIS MZ or other Group 4 insecticides and Group M fungicides with different groups that control the same insects or pathogens.
- Insecticide and fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated insect and fungal 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 Bayer CropScience Inc. via internet at [www.bayercropscience.ca](http://www.bayercropscience.ca) or phone 1-888-283-6847.

## ENVIRONMENTAL HAZARDS:

Keep out of lakes, streams, ponds or other aquatic systems. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. This product is highly toxic to aquatic invertebrates. This product is toxic to birds. Apply this product only in accordance with this label. Dispose of all excess and any spilled treated seed pieces by covering or incorporating into the soil.

## PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Avoid contact with skin, eyes, or clothing.

Wear coveralls over long sleeved shirt and long pants, chemical resistant gloves, shoes and socks, a chemical resistant apron, goggles or a faceshield and a NIOSH-approved respirator when:

- i) Handling the product
- ii) Handling treated seed
- iii) Dusting at the hopper and treatment barrel
- iv) Loading the planter.

\* For exposure in enclosed areas, use a NIOSH approved respirator with an organic vapour (OV) cartridge or canister with any N, R, P, or HE prefilter.

\* For exposures outdoors, use a NIOSH approved respirator with any N, R, P or HE filter.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. 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. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

No food, drink or tobacco should be allowed in areas of chemical storage or use.

Apply only in areas with adequate ventilation or dust collection and control equipment installed.

Do not substitute fans for ventilation in areas where application is made to cut potatoes. Do not apply this product in a way that will contact workers or other persons. Only protected handlers may be in the area during application.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on the acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca).

## TOXICOLOGICAL INFORMATION

No specific antidote. Treat symptomatically.

#### FIRST AID

**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 5 minutes, then continue rinsing the eye. Call a poison control centre or doctor for treatment advice.

**IF ON SKIN:** 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 mouth-to-mouth if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**STORAGE:** Store product in original container only, away from other pesticides, fertilizer, food or feed. Do not store in direct, hot sunlight.

**DISPOSAL:** Do not reuse the container for any purpose.

1. Empty the bag thoroughly into the application equipment.
2. Follow provincial instructions for any required additional cleaning of the bag prior to its disposal.
3. Make the empty bag unsuitable for further use.
4. Dispose of the bag in accordance with provincial requirements.

For information on the disposal of unused, unwanted product, contact the provincial regulatory agency or the manufacturer. Contact the manufacturer and the provincial agency in case of a spill, and for clean-up of spills.

#### NOTICE: READ CAREFULLY

Treatment of highly mechanically damaged seed-pieces or seed-pieces of known low vigor may result in reduced germination and/or reduction of seed and seedling vigor.

Due to seed quality and storage conditions which are beyond the control of Bayer CropScience, no claims are made to guarantee germination of seed which has been treated and kept longer than the period, if any that is stated in the DIRECTIONS FOR USE section of this label.

**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. The user assumes the risk to persons or property that arises from any such use of this product.



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12-JAN-2011  
2007-8915

GROUP	4	INSECTICIDE
GROUP	1 M	FUNGICIDES

# GENESIS™ XT

INSECTICIDE-FUNGICIDE

Potato Seed-Piece Treatment

Seed applied treatment for use on potatoes to control Colorado potato beetle, potato leafhopper, aphids and over wintering adult flea beetles. Controls *Fusarium* (dry rot) and suppresses *Rhizoctonia* (black scurf and stolon canker). For on-farm use only.

DUST

AGRICULTURAL

### GUARANTEE:

Imidacloprid.....1.25%  
 Thiophanate-methyl .....3.0%  
 Mancozeb:.....6.0%

CAUTION - EYE IRRITANT

READ THE LABEL BEFORE USING

REGISTRATION NO. 28160 PEST CONTROL PRODUCTS ACT

Bayer CropScience Inc.  
 200-160 Quarry Park Blvd. S.E.  
 Calgary, Alberta T2C 3G3

Product Information: 1 888 283 6847

NET CONTENTS: 10kg, 15kg, 18.144kg, 20 kg

Genesis™ is a trademark of Bayer CropScience.

## GENERAL INFORMATION:

GENESIS XT is an insecticide and fungicide seed-piece treatment for use on potatoes to control or suppress certain insects and diseases. GENESIS XT controls Colorado potato beetle, potato leafhopper, and aphids including green peach, buckthorn, foxglove and potato aphid. GENESIS XT also provides control of over wintering adult potato flea beetles. GENESIS XT controls Fusarium Dry Rot (*Fusarium spp.*), and suppresses black scurf and stolon canker (*Rhizoctonia solani*).

## DIRECTIONS FOR USE:

Apply 500 g of GENESIS XT per 100 kilograms of cut seed pieces for control of Colorado potato beetle, potato leafhopper, aphids and control of over wintering adult potato flea beetles. This rate will also suppress Fusarium Dry Rot (*Fusarium spp.*).

Apply 750 g of GENESIS XT per 100 kilograms of cut seed pieces for control of Colorado potato beetle, potato leafhopper, aphids and control of over wintering adult potato flea beetles. This rate will also control Fusarium dry rot (*Fusarium spp.*) and suppress black scurf and stolon canker (*Rhizoctonia solani*).

Apply using a seed dust metering applicator so that cut seed-pieces are thoroughly covered with the mixture. Thoroughly clean and sanitize cutting machines, knives, trays, tables, barrels, equipment, trucks, and planters before cutting and planting seed-pieces. Plant seed-pieces as soon as possible after cutting and treating. For optimal control of insects and diseases, good coverage of the seed-piece is required.

The length of insect control will vary depending on the rate used. Consult your local extension personnel, Bayer CropScience representative or dealer for information relevant to your area. The higher rate of GENESIS XT is recommended when extended length of insect control is needed.

## USE LIMITATIONS:

Do not mix, load or clean application equipment within 30 metres of well-heads or aquatic systems. This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of GENESIS XT in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Avoid prolonged exposure of GENESIS XT-treated seed-pieces to sunlight. Do not use treated seed-pieces for food, feed, or fodder.

Do not apply any subsequent application of imidacloprid (i.e. ADMIRE 240 Flowable Systemic Insecticide in-furrow or foliar application) or other group 4 insecticide following GENESIS XT potato seed-piece treatment.

Do not apply more than 22.4 kg of GENESIS XT (0.280 kg imidacloprid) per hectare per year. Thus for seeding rates higher than 2985 kg seed/ha, the highest application rate (750 g/100 kg of seed) can not be used. For seeding rates between 2985 kg seed/ha and 4480 kg seed/ha, ensure that

the application rate does not exceed 22.4 kg of Genesis XT per hectare. The lower application rate (500 g/100 kg of seed) may be used for seeding rates up to 4480 kg seed/ha. Do not use GENESIS XT for seeding rates higher than 4480 kg seed/ha.

Under high insect pressures, a foliar insecticide may be required, therefore monitor crop regularly for insect infestation levels.

A limit of 40,000 kg potato seed pieces may be treated per day on farm.

#### ROTATIONAL CROPS:

Treated areas may be replanted with any crop specified on an imidacloprid label, or any crop for which a tolerance exists for the active ingredient, as soon as practical following the last application.

Rotation of fields treated with GENESIS XT to cereal grains (wheat, barley, oats) is acceptable after a minimum plant-back interval of 30 days and to peas and beans (including faba beans, soybeans, adzuki beans, mung beans, lima beans, scarlet runners, dry common beans, snap common beans) is acceptable after a minimum plant-back interval of 9 months. Rotation to all other food and feed crops will require a 12 month plant-back interval be observed. Green manure and other cover crops not intended for human or animal consumption are acceptable rotational crops which do not require a plant-back interval following treatment. Do not graze or harvest such cover crops for food or feed.

Imidacloprid is persistent and has a high potential for carryover; it is not recommended that this product be used in fields treated with GENESIS XT, or ADMIRE 240 Flowable Systemic Insecticide during the previous season.

#### RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that GENESIS XT contains both a Group 4 insecticide and Groups 1 and M fungicides. Any insect or fungal population may contain individuals naturally resistant to GENESIS XT and other Group 4 insecticide or Groups 1 and M fungicides. A gradual or total loss of pest control may occur over time if these insecticides and fungicides are used repeatedly in the same fields. 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 and fungicide resistance:

- Where possible, rotate the use of GENESIS XT or other Group 4 insecticides and Groups 1 and M fungicides with different groups that control the same insects or pathogens.
- Insecticide and fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated insect and fungal 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 Bayer CropScience Inc. via internet at [www.bayercropscience.ca](http://www.bayercropscience.ca) or phone 1-888-283-6847.

#### ENVIRONMENTAL HAZARDS:

Keep out of lakes, streams, ponds or other aquatic systems. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. This product is highly toxic to aquatic invertebrates. This product is toxic to birds. Apply this product only in accordance with this label. Dispose of all excess and any spilled treated seed pieces by covering or incorporating into the soil.

#### PRECAUTIONS:

##### KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Avoid contact with skin, eyes, or clothing.

Wear coveralls over long sleeved shirt and long pants, chemical resistant gloves, shoes and socks, a chemical resistant apron, goggles or a faceshield and a NIOSH-approved respirator when:

- i) Handling the product
- ii) Handling treated seed
- iii) Dusting at the hopper and treatment barrel
- iv) Loading the planter.

\* For exposure in enclosed areas, use a NIOSH approved respirator with an organic vapour (OV) cartridge or canister with any N, R, P, or HE prefilter.

\* For exposures outdoors, use a NIOSH approved respirator with any N, R, P or HE filter.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. 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. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

No food, drink or tobacco should be allowed in areas of chemical storage or use.

Apply only in areas with adequate ventilation or dust collection and control equipment installed.

Do not substitute fans for ventilation in areas where application is made to cut potatoes. Do not apply this product in a way that will contact workers or other persons. Only protected handlers may be in the area during application.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on the acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca).

#### TOXICOLOGICAL INFORMATION:

No specific antidote. Treat symptomatically.

**FIRST AID:**

**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 5 minutes, then continue rinsing the eye. Call a poison control centre or doctor for treatment advice.

**IF ON SKIN:** 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 mouth-to-mouth if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**STORAGE:** Store product in original container only, away from other pesticides, fertilizer, food or feed. Do not store in direct, hot sunlight.

**DISPOSAL:** Do not reuse the container for any purpose.

1. Empty the bag thoroughly into the application equipment.
2. Follow provincial instructions for any required additional cleaning of the bag prior to its disposal.
3. Make the empty bag unsuitable for further use.
4. Dispose of the bag in accordance with provincial requirements.

For information on the disposal of unused, unwanted product, contact the provincial regulatory agency or the manufacturer. Contact the manufacturer and the provincial agency in case of a spill, and for clean-up of spills.

**NOTICE: READ CAREFULLY**

Treatment of highly mechanically damaged seed-pieces or seed-pieces of known low vigor may result in reduced germination and/or reduction of seed and seedling vigor.

Due to seed quality and storage conditions which are beyond the control of Bayer CropScience, no claims are made to guarantee germination of seed which has been treated and kept longer than the period, if any that is stated in the DIRECTIONS FOR USE section of this label.

**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. The user assumes the risk to persons or property that arises from any such use of this product.

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# GAUCHO<sup>®</sup> 75 ST

Gaicho 75 ST is a systemic insecticide seed treatment for early season protection of canola, mustard (condiment-type only) and rapeseed seed and seedlings from flea beetles.

## COMMERCIAL

All seed treated with this product must be conspicuously coloured at the time of treatment.

**GUARANTEE: Imidacloprid**

1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine.....75%

REGISTRATION NO. 25556

PEST CONTROL PRODUCTS ACT



**READ THE LABEL BEFORE USING**

### Special Use Restrictions:

This product contains no colourant. An appropriate colourant must be added when this product is applied. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product. A blue colourant must be added when this product is applied to oilseed. Gaicho 75 ST can only be sold to commercial seed treaters who must comply with these requirements.

BAYER CROPSCIENCE INC.  
SUITE 100  
3131 114TH AVE. S.E.  
CALGARY, AB T2Z 3X2

® Gaicho is a Registered Trademark of Bayer AG

NET CONTENTS: 22.73 kg

**PRODUCT INFORMATION: 1-888-283-6847**

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



**GENERAL INFORMATION:**

Gaicho 75 ST is a systemic insecticide seed treatment for early season protection of canola, mustard (condiment-type only) and rapeseed seed and seedlings from flea beetles. In areas where flea beetle populations are often high, the higher application rate is recommended.

**DIRECTIONS FOR USE:**

For use in commercial seed treaters only. Not for use on agricultural establishments in hopper-box, slurry-box, or other seed treatment applications at, or immediately before, planting. This product is to be used in treaters designed for pelleting or coating seed. Mix thoroughly before use, or use entire container at one time.

**Mixing Instructions per 100 kg seed.**

Gaicho 75 ST Application Rate	Component				Total Mixture
	Gaicho 75 ST	Magna-Coat® Polymer	Magna-Coat Colourant	Water*	
533 grams/ 100 kg seed	533 g	500 mL	100 mL	1061 mL	2000 mL
1066 grams/ 100 kg seed	1066 g	1000 mL	150 mL	2173 mL	4000 mL

Apply 2-4 L of mixture per 100 kg seed.

\*see triple rinsing instructions

® Magna-coat is a registered trademark of Bayer CropScience

**Mixing Instructions for one 22.73 kg container of Gaicho 75 ST**

Gaicho 75 ST Application Rate	Component				Total Mixture	Slurry Application Rate
	Gaicho 75 ST	Magna-Coat Polymer	Magna-Coat Colourant	Water*		
533 grams/ 100 kg seed	22.73 kg	20 L	4 L	46.5 L	85 L	2 L/100 kg seed
1066 grams/ 100 kg seed	22.73 kg	20 L	3 L	47.5 L	85 L	4 L/100 kg seed

One container of Gaicho 75 ST will treat 4250 kg seed at the lower application rate and 2125 kg seed at the higher application rate.

\*see triple rinsing instructions

**NOTE:** A suitable seed colourant such as Magna-Coat Colourant must be applied to the seed during the pelleting or the coating process. Magna-Coat Polymer and Magna-Coat Colourant are available from Bayer CropScience. Equipment used in seed treating plants can vary thus it is advised that a Bayer CropScience Technical Representative be contacted to discuss the use of Gaicho 75 ST in the intended seed treater prior to use. Gaicho 75 ST treated seed may reduce seed flow in the seed drill. Recalibration of the seed drill may be required to obtain correct seeding rate before planting.

## **METHOD OF APPLICATION:**

Storage of Gaucho 75 ST Insecticide at low temperatures is not recommended. Prior to and during application, Gaucho 75 ST Insecticide must be THOROUGHLY AGITATED to ensure uniform mixing of the product. Due to the viscosity of the material, it should be kept above 10°C prior to and during application. Do not apply direct heat to container.

## **RESISTANCE MANAGEMENT RECOMMENDATIONS:**

For resistance management, please note that Gaucho 75 ST Insecticide contains a Group 4 insecticide. Any insect population may contain individuals naturally resistant to Gaucho 75 ST 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 fields. 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 Gaucho 75 ST Insecticide or other Group 4 insecticides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM 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 Bayer CropScience at 1-888-283-6847 or at [www.bayercropscience.com](http://www.bayercropscience.com).

## **USE RESTRICTIONS:**

1. Treated seed must not be used for food, feed or oil processing.
2. Do not graze or feed livestock on treated areas for four weeks after planting.
3. Mustard greens grown and harvested from Gaucho 75 ST-treated mustard seed must not be used for human consumption.
4. Treated canola, rapeseed or mustard (condiment type only) seed stored for periods in excess of 6 months may decrease in germination at a faster rate than untreated seed. Treated seed stored for more than 6 months should be tested for germination before planting. Do not store treated seed above 25°C or in direct sunlight.
5. This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of Gaucho 75 ST Insecticide in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

**LABELLING TREATED SEED:**

All bags containing treated seed must be labelled or tagged as follows: “This seed has been treated with Gaucho 75 ST seed protectant which contains 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine. Do not use for feed, food or oil processing. Store away from feeds and other foodstuffs.”

**ENVIRONMENTAL PRECAUTIONS:**

This product is highly toxic to birds and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present. Do not contaminate water when disposing of equipment wash waters. Cover or incorporate spilled treated seeds. Left over treated seed should be doublesown around the headland, or buried away from water sources.

**SAFETY PRECAUTIONS:**

1. KEEP OUT OF REACH OF CHILDREN.
2. Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing vapour or spray mist. When handling Gaucho 75 ST or Gaucho 75 ST-treated seed, wear coveralls over normal work clothing, chemical resistant gloves, NIOSH approved respirators with chemical cartridge and dust filters and safety goggles or face shield. Do NOT use leather or cloth gloves.
3. Protective eye wear should be worn when handling this product.
4. Use good personal hygiene, washing hands and exposed skin before eating, drinking or smoking. No food, drink or tobacco should be allowed in areas of chemical storage or use.
5. If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on the acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca).

**TOXICOLOGICAL INFORMATION:**

NOTE TO PHYSICIANS: Treat symptomatically. There is no specific antidote.

**FIRST AID:**

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 5 minutes, then continue rinsing the 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 15-20 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 mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**STORAGE AND DISPOSAL:**

**STORAGE:** Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep container closed. Do not store Gaucho 75 ST in direct sunlight. Do not store Gaucho 75 ST above 35°C.

**DISPOSAL:**

1. Triple or pressure rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction 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 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.

**TRIPLE RINSING INSTRUCTIONS FOR CONTAINER DISPOSAL (FOR NONRETURNABLE AND RECYCLABLE CONTAINERS ONLY):**

This container should be triple rinsed prior to its disposal. The rinsate can be added to the seed treatment provided the volume of water does not exceed 6 % of the container size. Add 1/3 of the rinse water to the container and mix the contents thoroughly. Empty the rinsate into the seed treater holding tank and repeat this process two more times making sure the total volume of rinsate does not exceed 6 % of the container size. Make sure rinsate is thoroughly mixed with seed treatment before treating. Close the container.

**CAUTION:**

Do not dilute beyond 6% or excess seed wetness may result in seed handling difficulties. Using excess water can also cause Gaucho 75 ST Insecticide to thin resulting in settling of solids in the product.

**Seed Quality:** Treatment of highly mechanically damaged seed, or seed of known low vigour and poor quality may result in reduced germination and/or reduction of seed and seedling vigour. If seed lot quality is unknown, conduct a germination test on a small portion of seed before committing the total seed lot to a selected chemical treatment.

**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. The user assumes the risk to persons or property that arises from any such use of this product.

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This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.

2015-1118  
2015-04-10



GROUP	4	INSECTICIDE
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## GAUCHO<sup>®</sup> 480 FL INSECTICIDE

Gaicho 480 FL Insecticide is a systemic insecticide seed treatment for early season protection of canola, mustard (condiment type only) and rapeseed seed and seedlings against flea beetles. Gaicho 480 FL provides early season protection of field corn for seed production and sweet corn seedlings against corn flea beetle which vectors Stewart's Wilt disease by feeding on corn seedlings. Gaicho 480 FL also provides early season control of wireworms in field and sweet corn. Use of Gaicho 480 FL as a seed treatment for corn is restricted to Ontario only.

Suspension  
COMMERCIAL

All seed treated with this product must be conspicuously coloured at the time of treatment.

GUARANTEE: Imidacloprid.....480 g/L

REGISTRATION NO. 26124 PEST CONTROL PRODUCTS ACT



CAUTION

POISON

READ THE LABEL AND BOOKLET BEFORE USING

PROTECT FROM FREEZING

Special Use Restrictions: This product contains no colourant. An appropriate colourant must be added when this product is applied. Regulations pertaining to the *Seeds Act* must be strictly adhered to when using this product. Gaicho 480 FL Insecticide can only be sold to commercial seed treaters who must comply with these regulations.

NET CONTENTS 10 L, 100 L, 1,000 L

Bayer CropScience  
Suite 200, 160 Quarry Park Blvd. S.E.  
Calgary, AB T2C 3G3

For product information, call: 1-800-283-6847  
In case of spills, poisoning, fire or other emergencies,  
call: 1-800-334-7577 (24 hours a day)

®Gaucho is a registered trademark of Bayer CropScience

## GENERAL INFORMATION:

Gaicho 480 FL Insecticide is a systemic insecticide seed treatment for early season protection of canola, mustard (condiment type only) and rapeseed seed and seedlings against flea beetles. In areas where flea beetle populations are often high, the higher application rate is recommended. Gaicho 480 FL Insecticide provides early season protection of field corn for seed production and sweet corn seedlings against corn flea beetle which vector Stewart's Wilt disease by feeding on corn seedlings. Gaicho 480 FL Insecticide also provides early season control of wireworms in field and sweet corn. Use of Gaicho 480 FL Insecticide as a seed treatment for corn is restricted to Ontario only.

Under high insect pressures, a foliar insecticide may be required, therefore monitor crop regularly for insect infestation levels.

## DIRECTIONS FOR USE:

For use in commercial seed treaters only. Not for use on agricultural establishments in hopper-box, slurry-box, or other seed treatment applications at, or immediately before, planting. This product is to be used in treaters designed for pelleting or coating seed. Mix thoroughly before use, or use entire container at one time. All seed must be conspicuously coloured at the time of treatment in accordance with Seed Regulations.

Equipment used in seed treating plants can vary thus it is advised that a Bayer CropScience representative be contacted to discuss the use of Gaicho 480 FL Insecticide in the intended seed treater prior to use. Gaicho 480 FL Insecticide-treated seed may reduce seed flow in the seed drill. Recalibration of the seed drill may be required to obtain correct seeding rate before planting.

## CANOLA, MUSTARD (CONDIMENT TYPE ONLY), AND RAPESEED.

Mixing Instructions per 100 kg seed.

Gaicho 480 FL Application Rate	Component		Total Mixture
	Gaicho 480 FL	Water	
833.3 mL/100kg seed to	833.3 mL	83.3 mL	916.6 mL
1666.6 mL/100kg seed	1666.6 mL	166.6 mL	1833.2 mL

NOTE: A colourant must be added to this product to colour the seed in accordance with the *Pest Control Products Act and the Seeds Act and Regulations*. A blue colourant must be added when this product is applied to oilseed. A suitable seed colourant such as Magna-Coat Colourant must be applied to the seed during the pelleting or the coating process. Magna-Coat Polymer and Magna-Coat Colourant are also available from Gustafson. For assistance please contact a Gustafson representative.



## CORN

For Use in Ontario Only.

For early season control of corn flea beetle and wireworms.

CROP	PEST	APPLICATION RATE	REMARKS
Field Corn	Wireworms	27 mL product per 80,000 seeds  (0.16 mg ai per kernel)	Dilute in sufficient water to achieve uniform distribution on the seed. Apply a total slurry volume of 100 mL per 80,000 seeds. Ensure that seed is adequately coloured.
Field Corn for Seed Production	Wireworms	27 mL product per 80,000 seeds  (0.16 mg ai per kernel)	Dilute in sufficient water to achieve uniform distribution on the seed. Apply a total slurry volume of 100 mL per 80,000 seeds. Ensure that seed is adequately coloured.
	Corn flea beetle (vector of Stewart's Wilt)	100 mL product per 80,000 seeds  (0.6 mg ai per kernel)	Dilute in sufficient water to achieve uniform distribution on the seed. Apply a total slurry volume of 190 to 240 mL per 80,000 seeds. Include in this volume 6 mL of Gustafson Pro-Ized Liquid Red Seed Colourant per 80,000 seeds. Pro-Ized Liquid Red Seed Colourant is available from Gustafson.
Sweet Corn	Wireworms	140 mL product per 100 kg of seed	Dilute in sufficient water to achieve uniform distribution on the seed. Apply a total slurry volume of 525 mL per 100 kg of seed. Ensure that seed is adequately coloured.
	Corn flea beetle (vector of Stewart's Wilt)	520 mL product per 100 kg of seed	Dilute in sufficient water to achieve uniform distribution on the seed. Apply a total slurry volume of 1000 to 1250 mL per 100 kg of seed. Include in this volume 32.5 mL of Gustafson Pro-Ized Liquid Red Seed Colourant per 100 kg of seed. Pro-Ized Liquid Red Seed Colourant is available from Gustafson.

Pre-test the germination of a small sample of each seed lot with Gaucho 480 FL Insecticide prior to commercial application to the whole lot. Carry-over of Gaucho 480 FL Insecticide treated seed is not recommended. Gaucho 480 FL Insecticide can be used as an over-treatment.

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 Bayer CropScience and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Bayer CropScience itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below. Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Bayer CropScience harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.

DIRECTIONS FOR USE: Gaucho 480 FL Insecticide is a systemic insecticide seed treatment for early season protection of edible podded beans and dry shelled beans from potato leafhopper. For use in commercial and on-farm seed treatment equipment. Mix thoroughly before use, or use entire container at one time. All seed must be conspicuously coloured at the time of treatment in accordance with *Seed Act and Regulations*. Gaucho 480 treated seed may reduce seed flow in the seed drill. Recalibration of the seed drill may be required to obtain correct seeding rate before planting. Pre-test the germination of a small sample of each seed lot with Gaucho 480 FL Insecticide prior to commercial application to the whole lot. Carry-over of Gaucho 480 FL Insecticide treated seed is not recommended. Gaucho 480 FL Insecticide can be used as an over-treatment.

For early season protection from potato leafhopper, apply Gaucho 480 FL at a rate of 130mL per 100 kg of seed (62.4 g imidacloprid per 100 kg seed).

Edible podded beans , crop subgroup 6A (except peas)

Crop	Pest	Rate of Gaucho 480 FL
Bean ( <i>Phaseolus</i> spp.) Includes runner bean, snap bean, wax bean	Potato Leafhopper	130 ml per 100kg seed  (62.4 g a.i. per 100 kg seed)
Bean ( <i>Vigna</i> spp.) Includes asparagus bean, Chinese longbean, moth bean, yardlong bean		
Jackbean		

Dry shelled beans, crop subgroup 6C (except soybeans and dry shelled peas)

Crop	Pest	Rate of Gaucho 480 FL
Bean ( <i>Lupinus</i> spp.) Includes grain lupin, sweet lupin, white lupin, white sweet lupin	Potato Leafhopper	130 ml per 100kg seed  (62.4 g a.i. per 100 kg seed)

<p>Bean (<i>Phaseolus</i> spp.) Includes field bean(dry common and coloured) such as kidney, black cranberry pink and navy bean, lima bean, pinto bean, tepary bean</p> <p>Bean (<i>Vigna</i> spp.) Includes adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean</p> <p>Broad bean (fava bean)</p>		
<p>Use Restriction: Do not handle more than 189 L of Gaucho 480 FL Insecticide per day while treating edible podded beans and dry shelled beans. This is equivalent to 145,000 kg of seed per day at a rate of 130 mL per 100 kg seed.</p>		

**METHOD OF APPLICATION:**

Storage of Gaucho 480 FL Insecticide at low temperatures is not recommended. Prior to and during application, Gaucho 480 FL must be thoroughly agitated to ensure uniform mixing of the product. Due to the viscosity of the material, it should be kept above 10 °C prior to and during application. Do not apply direct heat to container.

**RESISTANCE MANAGEMENT RECOMMENDATIONS:**

For resistance management, please note that Gaucho 480 FL Insecticide contains a Group 4 insecticide. Any insect population may contain individuals naturally resistant to Gaucho 480 FL and other Group 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 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 Gaucho 480 FL Insecticide or other Group 4 insecticides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM 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 Bayer CropScience at 1-800-283-6847 or at [www.bayercropscience.com](http://www.bayercropscience.com).



#### USE RESTRICTIONS:

1. Do not use treated seed for food, feed or oil processing.
2. Do not graze or feed livestock on treated areas for four weeks after planting.
3. Mustard greens grown and harvested from Gaucho 480 FL Insecticide-treated mustard seed must not be used for human consumption.
4. Treated canola, rapeseed or mustard (condiment type only) seed stored for periods in excess of 9 months may decrease in germination at a faster rate than untreated seed. Treated seed stored for more than 9 months should be tested for germination before planting. Do not store treated seed above 25°C or in direct sunlight.

#### LABELLING TREATED SEED:

All bags containing treated seed must be labelled or tagged as follows: “This seed has been treated with Gaucho 480 FL Insecticide seed protectant which contains imidacloprid. Do not use for feed, food or oil processing. Store away from feeds and other foodstuffs. Wear long-sleeves, long pants and chemical resistant gloves while handling treated seed. Do not use leather or cloth gloves.”

Additionally, all treated corn seed for sale or use in Canada must be labelled with the following information:

- Imidacloprid is toxic to bees. Dust generated during planting of treated seed may be harmful to bees and other pollinators.
- To help minimize the dust generated during planting, refer to the complete guidance “Pollinator Protection and Responsible Use of Treated Seed- Best Management Practices” on the Health Canada webpage on pollinator protection at [www.healthcanada.gc.ca/pollinators](http://www.healthcanada.gc.ca/pollinators).
- When using a seed flow lubricant with this treated seed, only a dust-reducing fluency agent is permitted. Talc and graphite are not permitted to be used as a seed flow lubricant for corn seed treated with this insecticide. Carefully follow use directions for the seed flow lubricant.
- Do not load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds.
- When turning on the planter, avoid engaging the system where emitted dust may contact honey bee colonies.
- Spilled or exposed seeds and dust must be incorporated into the soil or cleaned up from the soil surface.

#### ENVIRONMENTAL PRECAUTIONS:

This product is highly toxic to birds and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present. Do not contaminate water when disposing of equipment wash waters.

Imidacloprid is toxic to bees. Dust generated during planting of treated seed may be harmful to bees and other pollinators. To help minimize the dust generated during planting, refer to the complete guidance “Pollinator Protection and Responsible Use of Treated Seed- Best Management Practices” on the Health Canada webpage on pollinator protection at [www.healthcanada.gc.ca/pollinators](http://www.healthcanada.gc.ca/pollinators). When using a seed flow lubricant with corn seed treated with

Gaicho 480 FL Insecticide this treated seed, only a dust-reducing fluency agent is permitted. Talc and graphite are not permitted to be used as a seed flow lubricant for corn seed treated with this insecticide. Carefully follow use directions for the seed flow lubricant. Do not load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds. When turning on the planter, avoid engaging the system where emitted dust may contact honey bee colonies. Spilled or exposed seeds and dust must be incorporated into the soil or cleaned up from the soil surface.

#### PRECAUTIONS:

##### KEEP OUT OF REACH OF CHILDREN.

Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing vapour or spray mist. When handling Gaicho 480 FL Insecticide or Gaicho 480 FL Insecticide-treated seed, work in a well-ventilated area and wear chemical resistant gloves. Do NOT use leather or cloth gloves. Protective eye wear should be worn when handling this product. Use good personal hygiene, washing hands and exposed skin before eating, drinking or smoking. No food, drink or tobacco should be allowed in areas of chemical storage or use. If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at: [www.croplife.ca](http://www.croplife.ca).

#### TOXICOLOGICAL INFORMATION:

Treat poisoning victims symptomatically.

#### FIRST AID:

**IF SWALLOWED:** Call a poison control center 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 center 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 5 minutes, then continue rinsing the eye. Call a poison control centre or doctor for treatment advice.

**IF ON SKIN:** 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 mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

#### STORAGE AND DISPOSAL:

**STORAGE:** Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep container closed. Do not store Gaicho 480 FL Insecticide in direct sunlight. Do not store Gaicho 480 FL Insecticide above 35°C.

## DISPOSAL OF CONTAINER:

### FOR NON-RETURNABLE CONTAINERS:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the 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.

### 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.
- 2) Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

### FOR RETURNABLE CONTAINERS:

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 reuse this container for any other purpose.

**TRIPLE RINSE INSTRUCTIONS FOR CONTAINER DISPOSAL (FOR RECYCLABLE AND DISPOSABLE CONTAINERS ONLY):** This container should be triple-rinsed prior to its disposal. The rinsate can be added to the seed treatment provided the total volume of water does not exceed 6 % of the container size. Add 1/3 of the rinse water to the container and swish the contents thoroughly. Empty the rinsate into the seed treater holding tank and repeat this process two more times making sure the total volume of rinsate does not exceed 6%. Make sure rinsate is thoroughly mixed with seed treatment before treating. Close the container.

**CAUTION:** Do not dilute beyond 6% or excess seed wetness may result in seed handling difficulties. Using excess water can also cause Gaucho 480 FL to thin resulting in settling of solids in the product. Be sure to adjust the undiluted application rate up by 6% to compensate for the dilution of the product caused by the addition of rinsate.

### DISPOSAL OF UNUSED, UNWANTED PRODUCT:

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.

Seed Quality: Treatment of highly mechanically damaged seed, or seed of known low vigour and poor quality may result in reduced germination and/or reduction of seed and seedling vigour. If seed lot quality is unknown, conduct a germination test on a small portion of seed before committing the total seed lot to a selected chemical treatment.

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. The user assumes the risk to persons or property that arises from any such use of this product.



**SUPPLEMENTAL LABEL FOR THE USE OF GAUCHO 480 FL  
FOR CONTROL OF CORN FLEA BEETLE AND WIREWORMS  
IN SWEET CORN IN QUEBEC**

**GAUCHO<sup>®</sup> 480 FL  
INSECTICIDE**

Suspension

COMMERCIAL

All seed treated with this product must be conspicuously coloured at the time of treatment.

GUARANTEE: Imidacloprid.....480 g/L

REGISTRATION NO. 26124      PEST CONTROL PRODUCTS ACT

CAUTION ..... POISON

READ THE LABEL AND BOOKLET BEFORE USING

Bayer CropScience Inc.  
Suite 200, 160 Quarry Park Blvd. S.E.  
Calgary, AB T2C 3G3



**Special Use Restrictions:**

This product contains no colourant. An appropriate colourant must be added when this product is applied. Regulations pertaining to the 'SEEDS ACT' must be strictly adhered to when using this product. Gaucho 480 FL Insecticide can only be sold to commercial seed treaters who must comply with these regulations.

**PROTECT FROM FREEZING**

24 HOUR EMERGENCY PHONE: 1-800-334-7577

GROWER INFORMATION: 1-888-283-6847

NET CONTENTS 10 L, 100 L, 1,000 L

®Gaucho is a registered trademark of Bayer.

## GENERAL INFORMATION:

Gaicho 480 FL Insecticide provides early season protection of sweet corn seedlings against corn flea beetle which vector Stewart's Wilt disease by feeding on corn seedlings. Gaicho 480 FL Insecticide also provides early season control of wireworms in sweet corn.

Under high insect pressures, a foliar insecticide may be required, therefore monitor crop regularly for insect infestation levels.

## DIRECTIONS FOR USE:

For use in commercial seed treaters only. Not for use on agricultural establishments in hopper-box, slurry-box, or other seed treatment applications at, or immediately before, planting. This product is to be used in treaters designed for pelleting or coating seed. Mix thoroughly before use, or use entire container at one time. All seed must be conspicuously coloured at the time of treatment in accordance with Seed Regulations.

Equipment used in seed treating plants can vary thus it is advised that a Gustafson/Bayer CropScience Technical Representative be contacted to discuss the use of Gaicho 480 FL Insecticide in the intended seed treater prior to use. Gaicho 480 FL Insecticide treated seed may reduce seed flow in the seed drill. Recalibration of the seed drill may be required to obtain correct seeding rate before planting.

**NOTE:** A colourant **MUST** be added to this product to colour the seed in accordance with the PCP Act and the Seeds Act Regulations. A suitable seed colourant such as Magna-Coat Colourant must be applied to the seed during the pelleting or the coating process. Magna-Coat Polymer and Magna-Coat Colourant are also available from Gustafson/Bayer CropScience. For assistance please contact a Gustafson/Bayer CropScience representative.

For early season control of corn flea beetle and wireworms.

CROP	PEST	APPLICATION RATE	REMARKS
Sweet Corn	Wireworms	140 mL product per 100 kg of seed	Dilute in sufficient water to achieve uniform distribution on the seed. Apply a total slurry volume of 525 mL per 100 kg of seed. Ensure that seed is adequately coloured.
	Corn flea beetle (vector of Stewart's Wilt)	520 mL product per 100 kg of seed	Dilute in sufficient water to achieve uniform distribution on the seed. Apply a total slurry volume of 1000 to 1250 mL per 100 kg of seed. Include in this volume 32.5 mL of Gustafson Pro-Ized Liquid Red Seed Colourant per 100 kg of seed. Pro-Ized Liquid Red Seed Colourant is available from Gustafson/Bayer CropScience.

Pre-test the germination of a small sample of each seed lot with Gaucho 480 FL Insecticide prior to commercial application to the whole lot. Carry-over of Gaucho 480 FL Insecticide treated seed is not recommended. Gaucho 480 FL Insecticide can be used as an over-treatment.

#### **METHOD OF APPLICATION:**

Storage of Gaucho 480 FL Insecticide at low temperatures is not recommended. Prior to and during application, Gaucho 480 FL Insecticide must be THOROUGHLY AGITATED to ensure uniform mixing of the product. Due to the viscosity of the material, it should be kept above 10 °C prior to and during application. Do not apply direct heat to container.

#### **RESISTANCE MANAGEMENT RECOMMENDATIONS:**

Please refer to the full booklet for resistance management recommendations.

#### **USE RESTRICTIONS:**

1. Do not use treated seed for food, feed or oil processing.
2. Do not graze or feed livestock on treated areas for four weeks after planting.

#### **LABELLING TREATED SEED:**

All bags containing treated seed must be labelled or tagged as follows: “This seed has been treated with Gaucho 480 FL Insecticide seed protectant which contains imidacloprid. Do not use for feed, food or oil processing. Store away from feeds and other foodstuffs.”

Additionally, all treated corn seed for sale or use in Canada must be labelled with the following information:

- Imidacloprid is toxic to bees. Dust generated during planting of treated seed may be harmful to bees and other pollinators.
- To help minimize the dust generated during planting, refer to the complete guidance “Pollinator Protection and Responsible Use of Treated Seed- Best Management Practices” on the Health Canada webpage on pollinator protection at [www.healthcanada.gc.ca/pollinators](http://www.healthcanada.gc.ca/pollinators).
- When using a seed flow lubricant with this treated seed, only a dust-reducing fluency agent is permitted. Talc and graphite are not permitted to be used as a seed flow lubricant for corn seed treated with this insecticide. Carefully follow use directions for the seed flow lubricant.
- Do not load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds.
- When turning on the planter, avoid engaging the system where emitted dust may contact honey bee colonies.
- Spilled or exposed seeds and dust must be incorporated into the soil or cleaned up from the soil surface.

#### **ENVIRONMENTAL PRECAUTIONS:**

This product is highly toxic to birds and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present. Do not contaminate water when disposing of equipment wash waters. Imidacloprid is toxic to bees. Dust generated during planting of treated seed may be harmful to bees

and other pollinators. To help minimize the dust generated during planting, refer to the complete guidance “Pollinator Protection and Responsible Use of Treated Seed- Best Management Practices” on the Health Canada webpage on pollinator protection at [www.healthcanada.gc.ca/pollinators](http://www.healthcanada.gc.ca/pollinators). When using a seed flow lubricant with corn seed treated with Gaucho 480 FL Insecticide, only a dust-reducing fluency agent is permitted. Talc and graphite are not permitted to be used as a seed flow lubricant for corn seed treated with this insecticide. Carefully follow use directions for the seed flow lubricant. Do not load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds. When turning on the planter, avoid engaging the system where emitted dust may contact honey bee colonies. Spilled or exposed seeds and dust must be incorporated into the soil or cleaned up from the soil surface.

### **PRECAUTIONS:**

1. KEEP OUT OF REACH OF CHILDREN.
2. Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing vapour or spray mist. When handling Gaucho 480 FL Insecticide or Gaucho 480 FL Insecticide-treated seed, work in a well-ventilated area and wear chemical resistant gloves. Do NOT use leather or cloth gloves.
3. Protective eye wear should be worn when handling this product.
4. Use good personal hygiene, washing hands and exposed skin before eating, drinking or smoking. No food, drink or tobacco should be allowed in areas of chemical storage or use.
5. If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on the acceptable residue levels in the U.S., visit CropLife Canada’s web site at: [www.croplife.ca](http://www.croplife.ca).

### **TOXICOLOGICAL INFORMATION:**

Treat poisoning victims symptomatically.

### **FIRST AID:**

**IF SWALLOWED:** Call a poison control center 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 center 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 5 minutes, then continue rinsing the 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 15-20 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 mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

## **STORAGE AND DISPOSAL:**

**STORAGE:** Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep container closed. Do not store Gaucho 480 FL Insecticide in direct sunlight. Do not store Gaucho 480 FL Insecticide above 35°C.

## **DISPOSAL OF CONTAINER:**

### **FOR NON-RETURNABLE CONTAINERS:**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the 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.

### **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.
- 2) Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

### **FOR RETURNABLE CONTAINERS:**

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 reuse this container for any other purpose.

**TRIPLE RINSE INSTRUCTIONS FOR CONTAINER DISPOSAL (FOR RECYCLABLE AND DISPOSABLE CONTAINERS ONLY):** This container should be triple-rinsed prior to its disposal. The rinsate can be added to the seed treatment provided the total volume of water does not exceed 6 % of the container size. Add 1/3 of the rinse water to the container and swish the contents thoroughly. Empty the rinsate into the seed treater holding tank and repeat this process two more times making sure the total volume of rinsate does not exceed 6%. Make sure rinsate is thoroughly mixed with seed treatment before treating. Close the container.

**CAUTION:** Do not dilute beyond 6% or excess seed wetness may result in seed handling difficulties. Using excess water can also cause Gaucho 480 FL to thin resulting in settling of solids in the product.

**Be sure to adjust the undiluted application rate up by 6% to compensate for the dilution of the product caused by the addition of rinsate.**

**DISPOSAL OF UNUSED, UNWANTED PRODUCT:**

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.

**Seed Quality:** Treatment of highly mechanically damaged seed, or seed of known low vigour and poor quality may result in reduced germination and/or reduction of seed and seedling vigour. If seed lot quality is unknown, conduct a germination test on a small portion of seed before committing the total seed lot to a selected chemical treatment.

**NOTICE TO USER:**

This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

**NOTICE TO BUYER:**

Seller's guarantee shall be limited to the terms set out on the label and, subject there-to, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.



2015-1119  
2015-04-10



GROUP 4 INSECTICIDE

### GAUCHO® 600 FL INSECTICIDE

GAUCHO 600 FL is a systemic insecticide seed treatment for early season protection of canola, mustard (condiment-type only) and rapeseed seed and seedlings against flea beetles. GAUCHO 600 FL Insecticide provides early season protection of field corn for seed production against corn flea beetle which vectors Stewart's Wilt disease by feeding on corn seedlings. GAUCHO 600 FL Insecticide also provides early season control of wireworms in field corn.

### COMMERCIAL

GUARANTEE: Imidacloprid.....600 g/L  
Contains 1,2-benzisothiazolin-3-one at 0.048% as a preservative

REGISTRATION NO. 27170 PEST CONTROL PRODUCTS ACT



WARNING

POISON

READ THE LABEL AND BOOKLET BEFORE USING

Special Use Restrictions: This product contains no colourant. All seed treated with this product must be conspicuously coloured at the time of treatment. An appropriate colourant must be added when this product is applied. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product. A blue colourant must be added when this product is applied to oilseed, and an appropriate colour must be added when this product is applied to corn.

Bayer CropScience Inc.  
200-160 Quarry Park Blvd. S.E.  
Calgary, Alberta T2C 3G3

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

Product Information: 1-888-283-6847

PROTECT FROM FREEZING  
NET CONTENTS: 0.25-1000 L  
GAUCHO ® is a Registered Trademark of Bayer.

#### ENVIRONMENTAL PRECAUTIONS:

This product is toxic to wildlife. Keep out of lakes, streams, ponds or other aquatic systems. Do not contaminate water when disposing of equipment wash waters. Apply this product only in accordance with this label.

Imidacloprid is toxic to bees. To help minimize the dust generated during planting, refer to the complete guidance "Pollinator Protection and Responsible Use of Treated Seed- Best Management Practices" on the Health Canada webpage on pollinator protection at [www.healthcanada.gc.ca/pollinators](http://www.healthcanada.gc.ca/pollinators) . When using a seed flow lubricant with corn seed treated with GAUCHO 600 FL Insecticide, only a dust-reducing fluency agent is permitted. Talc and graphite are not permitted to be used as a seed flow lubricant for corn seed treated with this insecticide. Carefully follow use directions for the seed flow lubricant. Do not load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds. When turning on the planter, avoid engaging the system where emitted dust may contact honey bee colonies.

Spilled or exposed seeds and dust must be incorporated into the soil or cleaned up from the soil surface.

#### PRECAUTIONS:

##### KEEP OUT OF REACH OF CHILDREN.

Harmful or fatal if swallowed and harmful if inhaled. Avoid breathing vapour or spray mist.

When handling GAUCHO 600 FL Insecticide or GAUCHO 600 FL Insecticide-treated seed, work in a well-ventilated area and wear chemical resistant gloves. Do NOT use leather or cloth gloves. Protective eye wear should be worn when handling this product.

Use good personal hygiene, washing hands and exposed skin before eating, drinking or smoking. No food, drink or tobacco should be allowed in areas of chemical storage or use.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca) .

#### FIRST AID:

**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 5 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 15-20 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.

Take container, label, or product name and Pest Control Product Registration Number with you when seeking medical attention.

## TOXICOLOGICAL INFORMATION:

NOTE TO PHYSICIANS: Treat symptomatically. There is no specific antidote.

## STORAGE AND DISPOSAL:

STORAGE: Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep container closed. Store in a cool place. Do not store GAUCHO 600 FL Insecticide in direct sunlight. Protect from freezing temperatures.

## DISPOSAL (FOR NON-RETURNABLE CONTAINERS):

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Follow provincial instruction 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 disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of spill and for clean-up of spills

## DISPOSAL (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.
2. Make the empty container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

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.

## DISPOSAL (FOR RETURNABLE CONTAINERS):

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

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.

## TRIPLE RINSING INSTRUCTIONS FOR CONTAINER DISPOSAL (FOR NONRETURNABLE AND RECYCLABLE CONTAINERS ONLY):

This container should be triple rinsed prior to its disposal. The rinsate can be added to the seed treatment provided the volume of water does not exceed 6 % of the container size.

Add 1/3 of the rinse water to the container and mix the contents thoroughly. Empty the rinsate into the seed treater holding tank and repeat this process two more times making sure the total volume of rinsate does not exceed 6 % of the container size. Make sure rinsate is thoroughly mixed with seed treatment before treating. Close the container.

CAUTION: Do not dilute beyond 6 % or excess seed wetness may result in seed handling

difficulties. Using excess water can also cause GAUCHO 600 FL Insecticide to thin resulting in settling of solids in the product.

**SEED QUALITY:** Treatment of highly mechanically damaged seed, or seed of known low vigour and poor quality may result in reduced germination and/or reduction of seed and seedling vigour. If seed lot quality is unknown, conduct a germination test on a small portion of seed before committing the total seed lot to a selected chemical treatment.

**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 Product Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.



GROUP 4 INSECTICIDE

## GAUCHO® 600 FL INSECTICIDE

GAUCHO 600 FL is a systemic insecticide seed treatment for early season protection of canola, mustard (condiment-type only) and rapeseed seed and seedlings against flea beetles. GAUCHO 600 FL Insecticide provides early season protection of field corn for seed production against corn flea beetle which vectors Stewart's Wilt disease by feeding on corn seedlings. GAUCHO 600 FL Insecticide also provides early season control of wireworms in field corn.

### COMMERCIAL

GUARANTEE: Imidacloprid.....600 g/L  
Contains 1,2-benzisothiazolin-3-one at 0.048% as a preservative

REGISTRATION NO. 27170 PEST CONTROL PRODUCTS ACT



WARNING

POISON

READ THE LABEL AND BOOKLET BEFORE USING

Special Use Restrictions: This product contains no colourant. All seed treated with this product must be conspicuously coloured at the time of treatment. An appropriate colourant must be added when this product is applied. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product. A blue colourant must be added when this product is applied to oilseed, and an appropriate colour must be added when this product is applied to corn.

Bayer CropScience Inc.  
200-160 Quarry Park Blvd. S.E.  
Calgary, Alberta T2C 3G3

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

Product Information: 1-888-283-6847

PROTECT FROM FREEZING  
NET CONTENTS: 0.25-1000 L  
GAUCHO ® is a Registered Trademark of Bayer.



GROUP 4 INSECTICIDE

### GAUCHO® 600 FL INSECTICIDE

GAUCHO 600 FL is a systemic insecticide seed treatment for early season protection of canola, mustard (condiment-type only) and rapeseed seed and seedlings against flea beetles. GAUCHO 600 FL Insecticide provides early season protection of field corn for seed production against corn flea beetle which vectors Stewart's Wilt disease by feeding on corn seedlings. GAUCHO 600 FL Insecticide also provides early season control of wireworms in field corn.

#### COMMERCIAL

GUARANTEE: Imidacloprid.....600 g/L  
Contains 1,2-benzisothiazolin-3-one at 0.048% as a preservative

REGISTRATION NO. 27170 PEST CONTROL PRODUCTS ACT



WARNING

POISON

READ THE LABEL AND BOOKLET BEFORE USING

Special Use Restrictions: This product contains no colourant. All seed treated with this product must be conspicuously coloured at the time of treatment. An appropriate colourant must be added when this product is applied. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product. A blue colourant must be added when this product is applied to oilseed, and an appropriate colour must be added when this product is applied to corn.

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

Product Information: 1-888-283-6847

PROTECT FROM FREEZING  
NET CONTENTS: 0.25-1000 L  
GAUCHO ® is a Registered Trademark of Bayer.

**GENERAL INFORMATION:**

GAUCHO 600 FL is a systemic insecticide seed treatment for early season protection of canola, mustard (condiment-type only) and rapeseed seed and seedlings from flea beetles. In areas where flea beetle populations are often high, the higher application rate is recommended.

GAUCHO 600 FL Insecticide provides early season protection of field corn for seed production against corn flea beetle which vectors Stewart's Wilt disease by feeding on corn seedlings.

GAUCHO 600 FL Insecticide also provides early season control of wireworms in field corn.

**DIRECTIONS FOR USE:**

For use in commercial seed treaters only. Not for use on agricultural establishments in hopper-box, slurry-box, or other seed treatment applications at, or immediately before, planting. This product is to be used in liquid or slurry treaters. Mix thoroughly before use, or use entire container at one time.

Equipment used in seed treating plants can vary thus it is advised that a Bayer Technical Representative be contacted to discuss the use of GAUCHO 600 FL Insecticide in the intended seed treater prior to use. GAUCHO 600 FL Insecticide treated seed may reduce seed flow in the seed drill. Recalibration of the seed drill may be required to obtain correct seeding rate before planting. GAUCHO 600 FL Insecticide can be used as an over-treatment.

**CANOLA, MUSTARD (CONDIMENT-TYPE ONLY), AND RAPESEED**

Mixing Instructions per 100 kg seed.

GAUCHO 600 FL Application Rate	Component		Total Mixture
	GAUCHO 600 FL	Water*	
667 mL/100kg seed	670 mL	67 mL	737 mL
1333 mL/100kg seed	1330 mL	133 mL	1463 mL

\*See triple rinsing instructions.

NOTE: A colourant MUST be added to this product to colour seed in accordance with the PCP Act and the Seeds Act Regulations. A blue colourant must be added when this product is applied to oilseed. A suitable seed colourant such as Magna-Coat Colourant must be applied to the seed during the pelleting or the coating process. Magna-Coat Polymer and Magna-Coat Colourant are also available from Bayer. For assistance please contact a Bayer representative.

## CORN

For early season control of corn flea beetle and wireworms.

Crop	Pest	Application Rate	Remarks
Field Corn	Wireworms	21.3 mL product per 80,000 seeds (0.16 mg ai per Kernel)	Dilute in sufficient water to achieve uniform distribution on the seed. Ensure that seed is adequately coloured. Other polymers and coating materials may be required. Contact your Bayer representative for dilution instructions specific to the equipment in your treatment facility
Field Corn for Seed Production	Wireworms	21.3 mL product per 80,000 seeds (0.16 mg ai per kernel)	
	Corn flea beetle (vector of Stewart's Wilt)	80 mL product per 80,000 seeds (0.6 mg ai per kernel)	

Pre-test the germination of a small sample of each seed lot with GAUCHO 600 FL Insecticide prior to commercial application to the whole lot. Carry-over of GAUCHO 600 FL Insecticide treated seed is not recommended. GAUCHO 600 FL Insecticide can be used as an overtreatment. NOTE: A colourant MUST be added to this product to colour seed in accordance with the PCP Act and the Seeds Act Regulations. An appropriate colour for corn must be added when this product is applied to corn seed. A suitable seed colourant such as PRO-IZED® Liquid Red Seed Colourant must be applied to the seed during the pelleting or the coating process. Polymers and coating materials are available from Bayer. For assistance please contact a Bayer representative.

### METHOD OF APPLICATION:

Storage of GAUCHO 600 FL Insecticide at low temperatures is not recommended. Prior to and during application, GAUCHO 600 FL Insecticide must be THOROUGHLY AGITATED to ensure uniform mixing of the product. Due to the viscosity of the material, it should be kept above 10o C prior to and during application. Do not apply direct heat to container.

### RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that GAUCHO 600 FL Insecticide contains a Group 4 insecticide. Any insect population may contain individuals naturally resistant to GAUCHO 600 FL Insecticide and other Group 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 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 GAUCHO 600 FL Insecticide or other Group 4 insecticides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM 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 Bayer CropScience at 1-888-283-6847.

#### USE RESTRICTIONS:

Do not use treated seed for food, feed or oil processing.

Do not graze or feed livestock on treated areas for four weeks after planting.

Mustard greens grown or harvested from GAUCHO 600 FL Insecticide treated seed must not be used for human consumption.

Treated canola, rapeseed or mustard (condiment-type only) seed stored for periods in excess of 6 months may decrease in germination at a faster rate than untreated seed. Treated seed stored for more than 6 months should be tested for germination before planting. Do not store treated seed above 25°C or in direct sunlight.

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of GAUCHO 600 FL Insecticide in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

#### LABELLING TREATED SEED:

All bags containing treated seed must be labelled or tagged as follows: “This seed has been treated with GAUCHO 600 FL Insecticide seed protectant, which contains imidacloprid. Do not use for feed, food or oil processing. Store away from feeds and other foodstuffs.”

Additionally, all treated corn seed for sale or use in Canada must be labelled with the following information:

- Imidacloprid is toxic to bees. Dust generated during planting of treated seed may be harmful to bees and other pollinators.
- To help minimize the dust generated during planting, refer to the complete guidance “Pollinator Protection and Responsible Use of Treated Seed- Best Management Practices” on the Health Canada webpage on pollinator protection at [www.healthcanada.gc.ca/pollinators](http://www.healthcanada.gc.ca/pollinators).
- When using a seed flow lubricant with this treated seed, only a dust-reducing fluency agent is permitted. Talc and graphite are not permitted to be used as a seed flow lubricant for corn seed treated with this insecticide. Carefully follow use directions for the seed flow lubricant.
- Do not load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds.
- When turning on the planter, avoid engaging the system where emitted dust may contact honey bee colonies.
- Spilled or exposed seeds and dust must be incorporated into the soil or cleaned up from the soil surface.

#### ENVIRONMENTAL PRECAUTIONS:

This product is toxic to wildlife. Keep out of lakes, streams, ponds or other aquatic systems. Do not contaminate water when disposing of equipment wash waters. Apply this product only in

accordance with this label.

Imidacloprid is toxic to bees. Dust generated during planting of treated seed may be harmful to bees and other pollinators. To help minimize the dust generated during planting, refer to the complete guidance “Pollinator Protection and Responsible Use of Treated Seed- Best Management Practices” on the Health Canada webpage on pollinator protection at [www.healthcanada.gc.ca/pollinators](http://www.healthcanada.gc.ca/pollinators). When using a seed flow lubricant with corn seed treated with GAUCHO 600 FL Insecticide this treated seed, only a dust-reducing fluency agent is permitted. Talc and graphite are not permitted to be

used as a seed flow lubricant for corn seed treated with this insecticide. Carefully follow use directions for the seed flow lubricant. Do not load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds. When turning on the planter, avoid engaging the system where emitted dust may contact honey bee colonies.

Spilled or exposed seeds and dust must be incorporated into the soil or cleaned up from the soil surface.

#### PRECAUTIONS:

##### KEEP OUT OF REACH OF CHILDREN.

Harmful or fatal if swallowed and harmful if inhaled. Avoid breathing vapour or spray mist. When handling GAUCHO 600 FL Insecticide or GAUCHO 600 FL Insecticide-treated seed, work in a well-ventilated area and wear chemical resistant gloves. Do NOT use leather or cloth gloves. Protective eye wear should be worn when handling this product.

Use good personal hygiene, washing hands and exposed skin before eating, drinking or smoking. No food, drink or tobacco should be allowed in areas of chemical storage or use.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at:

[www.croplife.ca](http://www.croplife.ca).

#### FIRST AID:

**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 5 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 15-20 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.

Take container, label, or product name and Pest Control Product Registration Number with you when seeking medical attention.

#### TOXICOLOGICAL INFORMATION:

**NOTE TO PHYSICIANS:** Treat symptomatically. There is no specific antidote.

#### STORAGE AND DISPOSAL:

**STORAGE:** Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep container closed. Store in a cool place. Do not store GAUCHO 600 FL Insecticide in direct sunlight. Protect from freezing temperatures.

#### DISPOSAL (FOR NON-RETURNABLE CONTAINERS):

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Follow provincial instruction 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 disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of spill and for clean-up of spills

#### DISPOSAL (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.
2. Make the empty container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

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.

#### DISPOSAL (FOR RETURNABLE CONTAINERS):

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

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.

#### TRIPLE RINSING INSTRUCTIONS FOR CONTAINER DISPOSAL (FOR NONRETURNABLE AND RECYCLABLE CONTAINERS ONLY):

This container should be triple rinsed prior to its disposal. The rinsate can be added to the seed treatment provided the volume of water does not exceed 6 % of the container size.

Add 1/3 of the rinse water to the container and mix the contents thoroughly. Empty the rinsate into the seed treater holding tank and repeat this process two more times making sure the total volume of rinsate does not exceed 6 % of the container size. Make sure rinsate is thoroughly mixed with seed treatment before treating. Close the container.

**CAUTION:** Do not dilute beyond 6 % or excess seed wetness may result in seed handling difficulties. Using excess water can also cause GAUCHO 600 FL Insecticide to thin resulting in

settling of solids in the product.

**SEED QUALITY:** Treatment of highly mechanically damaged seed, or seed of known low vigour and poor quality may result in reduced germination and/or reduction of seed and seedling vigour. If seed lot quality is unknown, conduct a germination test on a small portion of seed before committing the total seed lot to a selected chemical treatment.

**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 Product Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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GROUP	7	M	FUNGICIDE
GROUP	4		INSECTICIDE

GAUCHO<sup>®</sup> CS FL

## SUSPENSION

Gaicho CS FL is a systemic insecticide and fungicide seed treatment for early season protection of canola, mustard (condiment and oilseed types) and rapeseed seed and seedlings against flea beetles. For control of seed rot, damping off, seedling blight and early season root rot caused by *Pythium*, *Rhizoctonia* and *Alternaria* on canola, rapeseed and mustard (condiment and oilseed types). Also controls seed borne Blackleg of canola and rapeseed. For protection of seeds and emerging seedlings only.

## COMMERCIAL

## GUARANTEE:

Imidacloprid.....285.7 g/L  
 Carbathiin..... 47.6 g/L  
 Thiram.....95.3 g/L

REGISTRATION NO. 27174 PEST CONTROL PRODUCTS ACT



CAUTION

POISON

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

PROTECT FROM FREEZING

NET CONTENTS: 1 L to 1000 L

Product Information : 1-888-283-6847

BAYER CROPSCIENCE INC.  
 200-160 Quarry Park Blvd. SE  
 Calgary, Alberta T2C 3G3

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

#### USE RESTRICTIONS:

1. Do not use treated seed for food, feed or oil processing.
2. Do not graze or feed livestock on treated areas for four weeks after planting.
3. Mustard greens grown or harvested from Gaucho CS FL seed treatment-treated seed must not be used for human consumption.
4. Treated canola, rapeseed or mustard (condiment and oilseed types) seed stored for periods in excess of 9 months may decrease in germination at a faster rate than untreated seed. Treated seed stored for more than 9 months should be tested for germination before planting. Do not store treated seed above 25°C or in direct sunlight.
5. DO NOT contaminate food, feed, domestic or irrigation water supplies, lakes, streams and ponds.
6. All bags containing treated seed for sale or use in Canada must be labelled or tagged as follows: "This seed has been treated with Gaucho CS FL seed protectant, which contains imidacloprid, carbathiin and thiram. Do not use for feed, food or oil processing. Store away from feeds and other foodstuffs. Wear a long-sleeved shirt, long pants and chemical-resistant gloves when handling treated seeds."

#### ENVIRONMENTAL PRECAUTIONS:

This product is highly toxic to birds and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present. Do not contaminate water when disposing of equipment wash waters. Cover or incorporate spilled treated seeds. Left over treated seed should be double-sown around the headland, or buried away from water sources.

In cleaning of equipment or disposing of wastes, do not contaminate water used for human or animal consumption or by wildlife and aquatic life or for irrigation purposes.

#### PRECAUTIONS:

##### KEEP OUT OF REACH OF CHILDREN.

Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing vapour or spray mist. When handling Gaucho CS FL seed treatment or Gaucho CS FL-treated seed, work in a well-ventilated area.

All workers involved in treating seeds, clean-up, repair and maintenance of seed treatment equipment must wear a long-sleeved shirt and long pants, chemical-resistant gloves, shoes and socks. Baggers, sowers and workers involved in handling treated seeds must wear a long-sleeved shirt and long pants, chemical-resistant gloves, shoes and socks, and a dust mask or appropriate respirator to minimize exposure to dust from treated seeds.

Because of possible unpleasant side effects, alcoholic beverages should be avoided for 24 hours before or after working with Gaucho CS FL seed treatment or treated seed.

Use good personal hygiene, washing hands and exposed skin with warm water and soap before eating, drinking or smoking. No food, drink or tobacco should be allowed in areas of chemical storage or use.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at: [www.croplife.ca](http://www.croplife.ca).

#### SYMPTOMS OF POISONING:

Skin contact may cause irritation and dermatitis. Alcohol intake within 24 hours of contact with thiram may cause flushing, sweating, headache and nausea.

#### TOXICOLOGICAL INFORMATION:

**NOTE TO PHYSICIANS:** Treat symptomatically. There is no specific antidote. If convulsions are present, DIAZEPAM is the anticonvulsant of choice. If reaction with alcohol occurs treat as disulfiram-alcohol reaction.

#### FIRST AID:

**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 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 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.

Take container, label, or product name and Pest Control Product Registration number with you when seeking medical attention.

#### TRIPLE RINSING INSTRUCTIONS FOR CONTAINER DISPOSAL (FOR RECYCLABLE AND NON-RETURNABLE CONTAINERS ONLY):

This container should be triple rinsed prior to its disposal. The rinsate can be added to the seed treatment provided the total volume of water does not exceed 6% of the container volume. Use 2% of the container size 3 times to triple rinse. Add the appropriate volume of rinse water to the container and swish the contents thoroughly. Empty the rinsate into the seed treater holding tank and repeat this process two more times making sure the total volume of rinsate does not exceed 6% of the container size. Make sure rinsate is thoroughly mixed with seed treatment before treating. Replace the lids on the empty containers and deliver to an approved pesticide container collection site. If no site is available make the empty container unsuitable for further use. (See Disposal Section)

**CAUTION:** Do not dilute beyond 6% or excess seed wetness may result in seed handling difficulties. Using excess water can also cause Gaucho CS FL seed treatment to thin resulting in settling of solids in the product. Be sure to adjust the undiluted application rate up by 6% to compensate for the dilution of the product caused by the addition of rinsate.

#### STORAGE:

Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep container closed. Do not store Gaucho CS FL seed treatment in direct sunlight. Do not store Gaucho CS FL seed treatment above 35°C.

#### 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.

#### FOR NON-RETURNABLE CONTAINERS:

Do not reuse this container for any purpose. Before disposing of the container it should be triple rinsed. See section “TRIPLE RINSING INSTRUCTIONS FOR CONTAINER DISPOSAL”

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to disposal.
3. Make the empty, rinsed container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.

#### 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.
- 2) Make the empty container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

#### FOR RETURNABLE CONTAINERS:

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.

#### 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. The user assumes the risk to persons or property that arises from any such use of this product.

® Gaucho is a Registered Trademark of Bayer.



GROUP	7	M	FUNGICIDE
GROUP	4		INSECTICIDE

## GAUCHO<sup>®</sup> CS FL

### SUSPENSION

Gaicho CS FL is a systemic insecticide and fungicide seed treatment for early season protection of canola, mustard (condiment and oilseed types) and rapeseed seed and seedlings against flea beetles. For control of seed rot, damping off, seedling blight and early season root rot caused by *Pythium*, *Rhizoctonia* and *Alternaria* on canola, rapeseed and mustard (condiment and oilseed types). Also controls seed borne Blackleg of canola and rapeseed. For protection of seeds and emerging seedlings only.

### COMMERCIAL

#### GUARANTEE:

Imidacloprid.....285.7 g/L  
Carbathiin..... 47.6 g/L  
Thiram.....95.3 g/L

REGISTRATION NO. 27174 PEST CONTROL PRODUCTS ACT



CAUTION

POISON

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

PROTECT FROM FREEZING

NET CONTENTS: 1L to 1000 L

Product Information : 1-888-283-6847

BAYER CROPSCIENCE INC.  
200-160 Quarry Park Blvd. SE  
Calgary, Alberta T2C 3G3

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

## GENERAL INFORMATION:

GaUCHO CS FL is a systemic insecticide and fungicide seed treatment. The insecticide, imidacloprid is for early season protection of canola, mustard (condiment and oilseed types) and rapeseed seed and seedlings from flea beetles. In areas where flea beetle populations are often high, higher application rates of the insecticide, imidacloprid, are recommended.

Under high insect pressures, a foliar insecticide may be required, therefore monitor crop regularly for insect infestation levels.

GaUCHO CS FL seed treatment contains the fungicides carbathiin and thiram. These fungicides control seed rot, damping off, seedling blight and early season root rot caused by *Pythium*, *Rhizoctonia* and *Alternaria* on canola, rapeseed and mustard (condiment and oilseed types). Also controls seed borne Blackleg of canola and rapeseed. For protection of seeds and emerging seedlings only.

## DIRECTIONS FOR USE:

For use in commercial seed treatment facilities only. Not for use on agricultural establishments in hopper-box, slurry-box or other seed treatment applications at, or immediately before, planting. Mix thoroughly before use, or use entire container at one time. GaUCHO CS FL seed treatment can be applied at 1400 to 2100 mL per 100 kg of seed. For areas where flea beetle populations are often high, tank mix GaUCHO CS FL seed treatment with GaUCHO 480 FL according to the directions in the table below.

## MIXING INSTRUCTIONS PER 100 KG SEED:

GaUCHO CS FL Application Rate	Imidacloprid Applied	GaUCHO CS FL	Water	Total Mixture
1400 mL	400 g	1400 mL	84 mL	1484 mL
2100 mL	600 g	2100 mL	126 mL	2226 mL

## TANK MIX WITH GAUCHO 480 FL:

Tank Mix Application Rate	Imidacloprid Applied	GaUCHO CS FL	GaUCHO 480 FL	Water	Total Mixture
1400 mL GaUCHO CS FL plus 833.3 mL GaUCHO 480 FL	800 g	1400 mL	833.3 mL	134 mL	2367.3 mL

Be sure to adjust the application rate up by 6% when diluting the product to triple rinse the container for disposal. Please refer to Triple Rinsing Instructions for rinsate instructions.

**NOTE:** Magna-Coat Products including Magna-Coat Colourant, Magna-Coat Polymer and MagnaBritener C are also available from Bayer CropScience. These products are recommended for use with GaUCHO CS FL seed treatment and for tank mixes of GaUCHO CS FL seed treatment and GaUCHO 480 FL. For assistance please contact a Bayer CropScience representative.

Equipment used in seed treating plants can vary thus it is advised that a Bayer CropScience Technical Representative be contacted to discuss the use of Gaucho CS FL seed treatment in the intended seed treater prior to use. Recalibration of the seed drill may be required to obtain correct seeding rate before planting.

#### METHOD OF APPLICATION:

Storage of Gaucho CS FL seed treatment at low temperatures is not recommended. Prior to and during application, Gaucho CS FL seed treatment must be THOROUGHLY AGITATED to ensure uniform mixing of the product. Due to the viscosity of the material, it should be kept above 10° C prior to and during application. Do not apply direct heat to container.

#### RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that Gaucho CS FL seed treatment contains a Group 4 insecticide and Group 7 and M fungicides. Any insect or fungal population may contain individuals naturally resistant to Gaucho CS FL seed treatment and other Group 4 insecticides or Group 7 or M fungicides. Other resistance mechanisms that are not linked to the site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed. A gradual or total loss of pest control may occur over time if these insecticides/fungicides are used repeatedly in the same fields.

To delay insecticide/fungicide resistance:

- Where possible, rotate the use of Gaucho CS FL seed treatment or other Group 4 insecticides and Group 7 or M fungicides with different groups that control the same pests in the field.
- Use tank mixtures with insecticides/fungicides from a different group when such use is permitted.
- Insecticide/fungicide use should be based on an IPM program that includes scouting, record keeping and considers cultural, biological and other chemical control practices.
- Monitor treated pest/fungal populations for resistance development.
- If fungal disease continues to progress after treatment, with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.
- 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 Bayer CropScience Inc. 1-888-283-6847.

#### TRIPLE RINSING INSTRUCTIONS FOR CONTAINER DISPOSAL (FOR RECYCLABLE AND NON-RETURNABLE CONTAINERS ONLY):

This container should be triple rinsed prior to its disposal. The rinsate can be added to the seed treatment provided the total volume of water does not exceed 6% of the container volume. Use 2% of the container size 3 times to triple rinse. Add the appropriate volume of rinse water to the

container and swish the contents thoroughly. Empty the rinsate into the seed treater holding tank and repeat this process two more times making sure the total volume of rinsate does not exceed 6% of the container size. Make sure rinsate is thoroughly mixed with seed treatment before treating. Replace the lids on the empty containers and deliver to an approved pesticide container collection site. If no site is available make the empty container unsuitable for further use. (See Disposal Section)

**CAUTION:** Do not dilute beyond 6% or excess seed wetness may result in seed handling difficulties. Using excess water can also cause Gaucho CS FL seed treatment to thin resulting in settling of solids in the product. Be sure to adjust the undiluted application rate up by 6% to compensate for the dilution of the product caused by the addition of rinsate.

#### USE RESTRICTIONS:

1. Do not use treated seed for food, feed or oil processing.
2. Do not graze or feed livestock on treated areas for four weeks after planting.
3. Mustard greens grown or harvested from Gaucho CS FL seed treatment-treated seed must not be used for human consumption.
4. Treated canola, rapeseed or mustard (condiment and oilseed types) seed stored for periods in excess of 9 months may decrease in germination at a faster rate than untreated seed. Treated seed stored for more than 9 months should be tested for germination before planting. Do not store treated seed above 25°C or in direct sunlight.
5. DO NOT contaminate food, feed, domestic or irrigation water supplies, lakes, streams and ponds.

#### LABELLING TREATED SEED:

All bags containing treated seed must be labelled or tagged as follows: “This seed has been treated with Gaucho CS FL seed protectant, which contains imidacloprid, carbathiin and thiram. Do not use for feed, food or oil processing. Store away from feeds and other foodstuffs. Wear a long-sleeved shirt, long pants and chemical-resistant gloves when handling treated seeds.”

#### ENVIRONMENTAL PRECAUTIONS:

This product is highly toxic to birds and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present. Do not contaminate water when disposing of equipment wash waters. Cover or incorporate spilled treated seeds. Left over treated seed should be double-sown around the headland, or buried away from water sources.

In cleaning of equipment or disposing of wastes, do not contaminate water used for human or animal consumption or by wildlife and aquatic life or for irrigation purposes.

#### PRECAUTIONS:

##### KEEP OUT OF REACH OF CHILDREN.

Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing vapour or spray mist. When handling Gaucho CS FL seed treatment or Gaucho CS FL-treated seed, work in a

well-ventilated area and wear chemical resistant gloves. All workers involved in treating seeds, clean-up, repair and maintenance of seed treatment equipment must wear a long-sleeved shirt and long pants, chemical-resistant gloves, shoes and socks. Baggers, sowers and workers involved in handling treated seeds must wear a long-sleeved shirt and long pants, chemical-resistant gloves, shoes and socks, and a dust mask or appropriate respirator to minimize exposure to dust from treated seeds.

Because of possible unpleasant side effects, alcoholic beverages should be avoided for 24 hours before or after working with Gaucho CS FL seed treatment or treated seed.

Use good personal hygiene, washing hands and exposed skin with warm water and soap before eating, drinking or smoking. No food, drink or tobacco should be allowed in areas of chemical storage or use.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at: [www.croplife.ca](http://www.croplife.ca).

#### SYMPTOMS OF POISONING:

Skin contact may cause irritation and dermatitis. Alcohol intake within 24 hours of contact with thiram may cause flushing, sweating, headache and nausea.

#### TOXICOLOGICAL INFORMATION:

**NOTE TO PHYSICIANS:** Treat symptomatically. There is no specific antidote. If convulsions are present, DIAZEPAM is the anticonvulsant of choice. If reaction with alcohol occurs treat as disulfiram-alcohol reaction.

#### FIRST AID:

**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 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 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.

Take container, label, or product name and Pest Control Product Registration number with you when seeking medical attention.

#### STORAGE:

Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep container closed. Do not store Gaucho CS FL seed treatment in direct sunlight. Do not store Gaucho CS FL seed treatment above 35°C.

#### 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.

#### FOR NON-RETURNABLE CONTAINERS:

Do not reuse this container for any purpose. Before disposing of the container it should be triple rinsed. See section “TRIPLE RINSING INSTRUCTIONS FOR CONTAINER DISPOSAL”

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to disposal.
3. Make the empty, rinsed container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.

#### 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.
- 2) Make the empty container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

#### FOR RETURNABLE CONTAINERS:

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.

#### SEED QUALITY:

Treatment of highly mechanically damaged seed, or seed of known low vigour and poor quality may result in reduced germination and/or reduction of seed and seedling vigour. If seed lot quality is unknown, conduct a germination test on a small portion of seed before committing the total seed lot to a selected chemical treatment.

#### 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. The user assumes the risk to persons or property that arises from any such use of this product.

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This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.

(Text for Jug Label - To be Printed in a Single Panel)

# INTERCEPT™ 60 WP

## Greenhouse and Nursery Insecticide

GROUP	<b>4</b>	INSECTICIDE
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FOR SYSTEMIC INSECT CONTROL ON ORNAMENTAL AND VEGETABLE PLANTS GROWN IN GREENHOUSES AND NURSERIES

COMMERCIAL

GUARANTEE: Imidacloprid ..... 60.0%

REGISTRATION NUMBER 27357 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND LEAFLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN



CAUTION

POISON

NET CONTENTS: 250 g

Bayer CropScience Inc.\*  
Suite 200, 160 Quarry Park Blvd. S.E.  
CALGARY, ALBERTA  
T2C 3G3  
Telephone: 1-888-283- 6847

\*Bayer Environmental Science  
A Division of Bayer CropScience

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. The user assumes the risk to persons or property that arises from any such use of this product.

## PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN

CAUTION: May be harmful if swallowed, inhaled, or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Do not breathe dust or vapor.

When handling the product, wear chemical resistant coveralls over long sleeved shirt, long pants, and chemical resistant gloves. Mixer/loaders should also wear a dust mask or respirator with appropriate dust filter, and goggles or face shield in addition to the above.

Vacate the area to be treated until the application is complete.

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

For foliar application in field nursery: DO NOT enter or allow worker or bystander entry into treated areas during the restricted entry interval (REI) of 12 hours. DO NOT sell, ship or export plants within 12 hours of treatment.

### User Safety Recommendations:

User should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact 1-866-375-4648 or [www.cropro.org/](http://www.cropro.org/).

### USE LIMITATIONS

Do **not** allow leachate runoff for the first 10 days after application, in order to retain the product and facilitate full plant uptake of the active ingredient. Do not apply to bedding plants intended to be used as food crops.

On plants with a production cycle of less than one year, do not apply more than once per crop. On stock plants and woody crops with a production cycle of greater than one year, do not apply more than once a year. Do not dispose of treated soil or otherwise contaminate sites outside of greenhouses.

Although soil treatments will minimize direct harm to non-target and beneficial invertebrates, INTERCEPT 60 WP may affect certain beneficial predators, parasites and pollinators which may be used in greenhouse ornamental and vegetable production.

### ENVIRONMENTAL HAZARDS

This product is highly toxic to aquatic invertebrates. Keep out of lakes, streams, ponds or other aquatic systems. Do not contaminate water when disposing of equipment washwaters.

**For Field and Container Grown Nursery Stock:** Do not apply within 30 metres of environmentally sensitive areas such as lakes, streams, rivers or other aquatic systems. Do not apply to terrains where there is a potential for surface run-off to enter aquatic systems. Do not mix, load or clean equipment within 30 metres of wellheads or aquatic systems.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Toxic to pollinators and certain beneficial insects. This product is systemic, and residues may be transported through plants into leaves, pollen and nectar. May harm pollinators and certain beneficial insects, including those used in greenhouse production.

Apply this product only in accordance with this label.

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

### FIRST AID

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 eyes 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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** No specific antidote is available. Treat the patient symptomatically.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE 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 original container and out of the reach of children, preferably in a locked storage area.

**PESTICIDE 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.

**CONTAINER DISPOSAL:** 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.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

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# INTERCEPT™ 60 WP

## Greenhouse and Nursery Insecticide

GROUP	4	INSECTICIDE
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FOR SYSTEMIC INSECT CONTROL ON ORNAMENTAL  
AND VEGETABLE PLANTS GROWN IN GREENHOUSES AND NURSERIES

COMMERCIAL

GUARANTEE: Imidacloprid ..... 60.0%

REGISTRATION NUMBER 27357 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND LEAFLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN



CAUTION

POISON

NET CONTENTS: 250 g

Bayer CropScience Inc.\*  
Suite 200, 160 Quarry Park Blvd. S.E.  
CALGARY, ALBERTA  
T2C 3G3  
Telephone: 1-888-283- 6847

\*Bayer Environmental Science  
A Division of Bayer CropScience

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. The user assumes the risk to persons or property that arises from any such use of this product.

## DIRECTIONS FOR USE

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

**IMPORTANT:** Read these entire DIRECTIONS FOR USE AND GENERAL INFORMATION before using INTERCEPT 60 WP.

**Do not formulate this product into other end-use products.**

**APPLICATION IN GREENHOUSES:** INTERCEPT 60 WP is for insect control on ornamental and vegetable plants in greenhouses. INTERCEPT 60 WP is a systemic product and will be translocated upward within the plant. This product is to be applied as a soil or soilless media/hydroponic treatment only. To assure optimum effectiveness, the product must be placed where the roots of the plant can absorb the active ingredient. Irrigate moderately but thoroughly after application, allowing no leaching and runoff from container for at least 10 days after application. Do not apply as a foliar application. **DO NOT** allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

**APPLICATION IN NURSERIES:** Intercept 60 WP is for control of European Chafer (*Rhizotrogus majalis*) and Japanese beetle (*Popillia japonica*) larvae in all field grown and container grown nursery stock including: trees, shrubs, herbaceous perennials and ornamental grasses. Intercept 60 WP is a systemic product. First and second instar larvae of the European Chafer and Japanese beetle ingest Intercept 60 WP from soil particles and plant roots. Avoid runoff or puddling of irrigation water following application.

- One application per year.
- Do not apply when rainfall is forecast for the next 48 hours.
- Repellency of bumble bee pollinators and negative effects on some beneficials (*Orius* sp.) can occur when INTERCEPT 60 WP is applied.
- Do not harvest nursery stock within 12 hours of treatment.
- Apply INTERCEPT 60 WP during adult beetle mating period/egg laying period up to first egg hatch.
- The need for and timing of application should be based on monitoring of the sites, previous records or experiences, current season adult trapping or other methods.

**Incorporation:** Incorporation of INTERCEPT 60 WP in plants grown in Greenhouses can be achieved by cultivation, irrigation, mechanical placement, drenching and broadcast sprays.

Incorporation of Intercept 60 WP in Container Grown Nursery Stock can be achieved by irrigation or drenching. For Field Grown Nursery stock, incorporation of Intercept 60 WP can be achieved by broadcast spray and incorporated into soil with overhead irrigation.

**NOTE:** Woody Perennials: Onset of protection is slower than in herbaceous species. A delay of 2 or more weeks should be expected. Longer delays may be expected with larger plants. Application should therefore be made well in advance of expected insect activity.

**Bark Media:** Media with 30 to 50% or more bark content may confer a shorter period of protection when treated with INTERCEPT 60 WP.

**Tank Mixes:** INTERCEPT 60 WP has been found to be compatible with commonly used liquid fertilizers.

Treated soil/soilless media may be replanted with any crop specified on an imidacloprid label, or any crop for which a tolerance exists for the active ingredient, **as soon as practical following the last application.** Do not plant other food crops in treated soil/soilless media within one year of treatment.

**For Field Grown Nursery stock, do not apply through any irrigation system.**

**Do not apply by aerial application.**

Do not apply when wind speeds are greater than 12 –15 km per hour at site of application.

APPLICATION EQUIPMENT FOR USE IN FIELD GROWN NURSERY STOCK: Apply INTERCEPT 60 WP in sufficient water to provide adequate distribution in the treated area. Use equipment which will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off-target drift. Check calibration periodically to ensure that equipment is working properly.

APPLICATION EQUIPMENT FOR USE ON GREENHOUSE ORNAMENTALS AND VEGETABLES AND ON CONTAINER GROWN NURSERY STOCK: Apply INTERCEPT 60 WP in sufficient water to provide adequate distribution in the treated area. The use of accurately calibrated equipment normally used for soil application of insecticides (drip irrigation) is required. Use equipment which will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off-target drift. Check calibration periodically to ensure that equipment is working properly.

#### APPLICATION THROUGH IRRIGATION SYSTEMS

INTERCEPT 60 WP may be applied at rates recommended on this label. The normal dilution ratio is 1:10 to 1:200, depending on the system. Always meter the product into the irrigation water during the first part of the irrigation cycle. The product may be mixed separately prior to injection. Agitation may be necessary if the mixture is allowed to stand more than 24 hours.

Remove scale, pesticide residue and other foreign matter from the tank and entire irrigation system.

Apply INTERCEPT 60 WP only through micro-irrigation (individual spaghetti tube), drip irrigation, overhead irrigation, or hand-held or motorized calibrated irrigation equipment. Do not apply this product through any other type of irrigation system. Crop injury or lack of effectiveness can result from nonuniform distribution of treated water.

If you have any questions about calibration, you should contact Provincial Extension specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the recommended safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or a person who is under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

#### SAFETY DEVICES FOR IRRIGATION SYSTEMS CONNECTED TO PUBLIC WATER SUPPLIES:

If the source of water for your irrigation system is a public water supply, follow the instructions below.

1. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure

decreases to the point where pesticide distribution is adversely affected.

5. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

#### SAFETY DEVICES FOR IRRIGATION SYSTEMS NOT CONNECTED TO A PUBLIC WATER SUPPLY:

1. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where the pesticide distribution is adversely affected.
6. Systems must use a metering pump such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

#### MIXING INSTRUCTIONS

To prepare the spray, add a portion of the required amount of water to the spray tank and with agitation, add Intercept 60 WP. Complete filling the tank with balance of water needed. Maintain sufficient agitation during both mixing and application.

#### RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that INTERCEPT 60 WP contains a Group 4 insecticide. Any insect population may contain individuals naturally resistant to INTERCEPT 60 WP and other Group 4 insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same fields. 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 INTERCEPT 60 WP or other Group 4 insecticides with different groups that control the same pests in a field.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Before applying INTERCEPT 60 WP, correctly identify the pest and ensure economic and agronomic thresholds are met as recommended by local provincial or IPM specialists.
- 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 Bayer CropScience via internet at [www.bayercropscience.ca](http://www.bayercropscience.ca) or phone 1-888-283-6847.



## RECOMMENDED DRENCH AND IRRIGATION APPLICATIONS

For use only on greenhouse plants as a soil drench using micro-irrigation, drip irrigation, overhead irrigation, or hand-held or motorized calibrated irrigation equipment.

PEST	CROP		DOSAGE	REMARKS
APHIDS WHITE- FLIES	GREENHOUSE VEGETABLES  Mature Plants in Production Greenhouse	Cucumber	16 g in 80 L of water per 1000 plants	<ul style="list-style-type: none"> <li>• Do not apply more than once per season. Do not apply within 1 day of harvest for tomatoes and cucumbers.</li> <li>• Caution: Do not apply to immature plants since phytotoxicity may occur at the recommended rates of application.</li> <li>• INTERCEPT 60 WP should always be used in conjunction with IPM (Integrated Pest Management) Practices.</li> <li>• Applications should be made when infestation pressure surpasses threshold and beneficials are not able to maintain pest populations below damage thresholds.</li> <li>• Repellency of bumble bee pollinators and negative effects on some beneficials (<i>Orius</i> sp.) can occur when INTERCEPT 60 WP is applied.</li> </ul>
		Tomato	16 g in 60 L of water per 1000 plants	

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 Bayer CropScience and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Bayer CropScience itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below. Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Bayer CropScience harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.

### RECOMMENDED DRENCH AND IRRIGATION APPLICATIONS

For use only on greenhouse plants as a soil drench using micro-irrigation, drip irrigation, overhead irrigation, or hand-held or motorized calibrated irrigation equipment.

PEST	CROP		DOSAGE	REMARKS
APHIDS* WHITE- FLIES	GREENHOUSE VEGETABLES  Mature Plants in Production Greenhouse	Peppers  Eggplant	16 g in 70 L of water per 1000 plants	<ul style="list-style-type: none"> <li>• Do not apply more than once per season. Do not apply within 3 days of harvest for peppers and eggplants.</li> <li>• Caution: Do not apply to immature plants since phytotoxicity may occur at the recommended rates of application.</li> <li>• INTERCEPT 60 WP should always be used in conjunction with IPM (Integrated Pest Management) Practices.</li> <li>• Applications should be made when infestation pressure surpasses threshold and beneficials are not able to maintain pest populations below damage thresholds.</li> <li>• Repellency of bumble bee pollinators and negative effects on some beneficials (<i>Orius</i> sp.) can occur when INTERCEPT 60 WP is applied.</li> <li>• Do not apply as a foliar application. This product is to be applied as a soil/soilless media/hydroponic treatment only. To assure optimum effectiveness, the product must be placed where the roots of the plant can absorb the active ingredient. Irrigate moderately but thoroughly after application, allowing no leaching and runoff from container for at least 10 days after application.</li> </ul>

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### RECOMMENDED DRENCH AND IRRIGATION APPLICATIONS

For use only on greenhouse plants as a soil drench using micro-irrigation, drip irrigation, overhead irrigation, or hand-held or motorized calibrated irrigation equipment.

PEST	CROP		DOSAGE	REMARKS
	Transplant Tray Plug Drench	Peppers	4.1 g per 1000 seedling plants	<ul style="list-style-type: none"> <li>• APPLICATION TIMING: Apply to 2-3 week old seedlings in flats at least 10 days prior to transplanting.</li> <li>• Mix required amount of product in sufficient water to uniformly and accurately cover the area being treated and thoroughly wet seedling blocks.</li> <li>• Do not use less than 15L solution per 100m<sup>2</sup> of seedling trays.</li> <li>• Irrigate treated area lightly after application to ensure INTERCEPT 60 WP reaches the root zone.</li> <li>• Allow no leaching or runoff from containers for 10 days after application to facilitate sufficient uptake of the active ingredient by the seedling roots for a residual control of the target pests.</li> <li>• Do not apply more than once per crop season.</li> </ul>

Note: Intercept 60WP should always be used in conjunction with IPM (Integrated Pest Management) Practices.

\*Green Peach Aphid for peppers.

ADDITIONAL CAUTIONS: Many varieties of vegetables have been tested for tolerance to imidacloprid and shown good safety. However, certain varieties may show more sensitivity to application of imidacloprid and therefore, treatment of a few plants is recommended before application is made to the whole greenhouse

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### DRENCH AND IRRIGATION APPLICATIONS

For use only on greenhouse lettuce in seedling blocks as a soil drench using micro-irrigation, drip irrigation, or motorized calibrated irrigation equipment.

CROP	PEST	DOSAGE INTERCEPT 60 WP	REMARKS
Greenhouse Lettuce	Aphids (including green peach aphid, lettuce aphid, and melon aphid)  Whitefly	Transplant Tray Plug Drench  4.1 g /1000 seedling plants	<ul style="list-style-type: none"> <li>• Mix required amount of product in sufficient water to uniformly and accurately cover the area being treated and thoroughly wet seedling blocks.</li> <li>• Do not use less than 15L solution per 100m<sup>2</sup> of seedling trays.</li> <li>• Irrigate treated area lightly after application to ensure INTERCEPT 60 WP reaches the root zone but does not leach out of the plug.</li> <li>• APPLICATION TIMING: Apply product prior to transplanting. Note: Allow a minimum of 10 days between the application of INTERCEPT 60WP and transplanting for sufficient uptake of the active ingredient by seedling roots for a residual control of the target pest. Do not allow leachate to run out for the first 10 days after application, in order to retain the product and facilitate full plant uptake of the active ingredient.</li> <li>• Do not apply more than once per crop cycle.</li> <li>• Do not apply using handheld irrigation equipment. Use motorized automated application equipment only.</li> <li>• Allow at least 28 days after INTERCEPT 60 WP application to harvest.</li> <li>• INTERCEPT 60 WP should always be used in conjunction with IPM (Integrated Pest Management) Practices.</li> </ul> <p>ADDITIONAL CAUTIONS: Many varieties of vegetables have been tested for tolerance to imidacloprid and shown good safety. However, certain varieties may show more sensitivity to application of imidacloprid and therefore, treatment of a few plants is recommended before application is made to the whole greenhouse.</p>



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### DRENCH AND IRRIGATION APPLICATIONS

For use as a soil drench using micro-irrigation, drip irrigation, or motorized calibrated irrigation equipment.

CROP	PEST	DOSAGE INTERCEPT 60 WP	REMARKS
Head & Stem Brassica subgroup 5A (including cabbage, broccoli, cauliflower, Nappa cabbage, Chinese broccoli, Brussels sprouts, Chinese mustard cabbage, kohlrabi, cavolo broccolo	Swede Midge larvae	Transplant Tray Plug Drench  4.1 grams/1000 seedlings	<ul style="list-style-type: none"> <li>• Mix required amount of product in sufficient water to uniformly and accurately cover the area being treated and thoroughly wet seedling blocks.</li> <li>• Do not use less than 15L solution per 100m<sup>2</sup> of seedling trays.</li> <li>• Irrigate treated area lightly after application to ensure INTERCEPT 60 WP reaches the root zone but does not leach out of the plug.</li> <li>• APPLICATION TIMING: Apply during seedling stage prior to transplanting. Note: Allow a minimum of 10 days between application of INTERCEPT 60WP and transplanting for sufficient uptake of the active ingredient by the seedling roots for a residual control of the target pest. Do not allow leachate runoff for the first 10 days after application, in order to retain the product and facilitate full plant uptake of the active ingredient.</li> <li>• Do not apply more than once per crop cycle.</li> <li>• Do not apply using handheld equipment. Use motorized automated application equipment only.</li> <li>• Allow at least 21 days after INTERCEPT 60WP application to harvest.</li> <li>• INTERCEPT 60 WP should always be used in conjunction with IPM (Integrated Pest Management) Practices.</li> <li>• Do not mix/load more than 53.7 kg INTERCEPT 60 WP on any one day.</li> </ul> <p>ADDITIONAL CAUTIONS: Many varieties of vegetables have been tested for tolerance to imidacloprid and shown good safety. However, certain varieties may show more sensitivity to application of imidacloprid and therefore, treatment of a few plants is recommended before application is made to the whole greenhouse.</p>

## RECOMMENDED DRENCH AND IRRIGATION APPLICATIONS

For use only on greenhouse plants as a soil drench using micro-irrigation, drip irrigation, overhead irrigation, or hand-held or motorized calibrated irrigation equipment.

PEST	CROP	USE PATTERN & DOSAGE - INTERCEPT 60 WP			REMARKS
APHIDS WHITE-FLIES	GREENHOUSE ORNAMENTALS  Container Plants	Herbaceous Species (one or two plants per pot)	Container Size mm (inches)	No. pots treated with 100 grams of product	<p>Apply to moist media. Use sufficient drench solution to wet most of the potting medium without loss of liquid from the bottom of the container.</p> <p>Follow application with moderate irrigation. Irrigate carefully during the next 10 days in order to avoid loss of active ingredient due to leaching.</p> <p>Application rate is dependent on plant type, number of plants per pot and pot size (see INTERCEPT 60 WP Dosage Chart). For example, if desired drench rate is 150 mL per 150 mm (6") pot for Herbaceous species, 1 or 2 plants per pot and the drench solution supply tank is 1000 L, mix 133 grams of INTERCEPT 60 WP per 1000 L of water.</p> <p>EXAMPLE: 1000 L of water ÷ 0.150 L (150 mL)/pot = 6667 pots treated/1000 L</p> <p><u>6667 pots treated X 100 g INTERCEPT 60 WP</u> 1000L                      5000 pots</p> <p>= 133 g INTERCEPT 60 WP/1000 L of drench water</p>
		0.002 g ai per 2.5 cm (1") pot	65 (2) 75 (3) 100 (4) 130 (5) 150 (6) 180 (7) 200 (8) 230 (9) 250 (10) 280 (11) 300 (12)	15,000 10,000 7,500 6,000 5,000 4,250 3,750 3,375 3,000 2,750 2,500	
		Herbaceous Species (three or more plants per pot), Woody Perennials	65 (2) 75 (3) 100 (4) 130 (5) 150 (6) 180 (7) 200 (8) 230 (9) 250 (10) 280 (11) 300 (12)	10,000 6,750 5,000 4,000 3,250 2,750 2,500 2,250 2,000 1,750 1,500	
		0.003 g ai per 2.5 cm (1") pot			

## RECOMMENDED DRENCH APPLICATIONS CONTAINER GROWN NURSERY ORNAMENTALS

For use on all nursery ornamentals grown in containers as a soil drench using micro-irrigation, drip irrigation, overhead irrigation, or hand-held or motorized calibrated irrigation equipment.

PEST	CROP	USE PATTERN & DOSAGE - INTERCEPT 60 WP		REMARKS
		Container Size mm (inches) in diameter	Rate of Product in mg/Pot	
Larvae of European Chafer ( <i>Rhizotrogus majalis</i> ) and Japanese beetle ( <i>Popillia japonica</i> )	All Container Grown Nursery Stock including: trees, shrubs, herbaceous perennials and ornamental grasses	180 mm (7")	1.19	<p>Apply to moist media. Use sufficient drench solution to wet most of the potting medium without loss of liquid from the bottom of the container.</p> <p>Follow application with moderate irrigation. Irrigate carefully during the next 10 days in order to avoid loss of active ingredient due to leaching.</p> <p><b>EXAMPLE:</b></p> <p>To calculate the surface area of a container: First calculate the radius: 180 mm diameter/2 = 90 mm radius Then use the formula: <math>(3.14 \times (90^2))/1,000,000 = 0.0254 \text{ m}^2</math></p> <p>To calculate the rate of product in mg per pot: <math>0.0254 \times 467 \text{ (g product/Ha)} = 11.9/10,000 = 0.00119 \text{ g} / 180 \text{ mm pot} = 1.19 \text{ mg/pot}</math></p> <p>A 180-mm container requires 1.19 mg product/pot.</p> <p>If treating 100 containers (180-mm diameter), the amount of product required would be <math>100 \times 1.19 \text{ mg} = 119 \text{ mg}</math> or 0.119 g of product.</p> <p>If desired drench rate is 150 mL water per 180 mm pot (this amount should not leach out of bottom of pot) then the amount of water required to treat 100 pots (180 mm dia.) would be <math>(100 \times 150) / 1000 = 15 \text{ Litres}</math> of water.</p> <ul style="list-style-type: none"> <li>• Do not apply more than once per year.</li> <li>• Caution: Do not apply to immature plants since phytotoxicity may occur at the recommended rates of application.</li> <li>• INTERCEPT 60 WP should always be used in conjunction with IPM (Integrated Pest Management) Practices.</li> <li>• Applications should be made when infestation pressure surpasses threshold and beneficials are not able to maintain pest populations below damage thresholds.</li> <li>• Repellency of bumble bee pollinators and negative effects on some beneficials (<i>Orius</i> sp.) can occur when INTERCEPT 60 WP is applied.</li> <li>• Do not harvest nursery stock within 12 hours of treatment</li> </ul>
		230 mm (9")	1.94	
		280 mm (11")	2.87	
		300 mm (12")	3.30	



## RECOMMENDED APPLICATIONS FIELD GROWN NURSERY ORNAMENTALS

PEST	CROP	DOSAGE of INTERCEPT 60WP Greenhouse Insecticide	REMARKS
Larvae of European Chafer ( <i>Rhizotrogus majalis</i> ) and Japanese beetle ( <i>Popillia japonica</i> )	FIELD GROWN NURSERY ORNAMENTALS Including: trees, shrubs, herbaceous perennials and ornamental grasses	467 g/ha (280 g a.i./ha)	<p>GROUND APPLICATION ONLY</p> <ul style="list-style-type: none"> <li>• One application per year.</li> <li>• Apply in 200 L of water per hectare.</li> <li>• Apply as a directed spray to the ground area around nursery stock planted in rows using a band 15 cm wider than the actual root ball to be dug. Do not allow adjacent bands to overlap. Also, can be applied to grass-covered rows, row middles, drive lanes, headlands and other grassy areas in and around the nursery plantation where larvae are likely to be found.</li> <li>• Apply as a broadcast spray over the top of small woody ornamentals planted in field grown beds.</li> <li>• Do not apply when rainfall is forecast for the next 48 hours.</li> <li>• Sufficient irrigation (e.g., 5 – 10 mm) should occur within 24 hours after application to move the active ingredient to the plant root zone but avoid over watering (e.g., more than 20 mm).</li> <li>• If large weeds and grasses are present, mow weeds and grassy areas to a 5 – 8 cm height before application so uniformity of application will not be affected.</li> <li>• Avoid mowing treated areas until after irrigation has occurred so that uniformity of application will not be affected.</li> <li>• Apply INTERCEPT 60 WP during adult beetle mating period/egg laying period up to first egg hatch. • The need for and timing of application should be based on monitoring of the sites, previous records or experiences, current season adult trapping or other methods.</li> <li>• Apply INTERCEPT 60 WP only once per year as directed by this label.</li> <li>• Repellency of bumble bee pollinators and negative effects on some beneficials (<i>Orius</i> sp.) can occur when INTERCEPT 60 WP is applied.</li> <li>• Do not harvest nursery stock within 12 hours of treatment</li> </ul>

NOTE : INTERCEPT 60 WP should always be used in conjunction with IPM (Integrated Pest Management) Practices.

## PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN

CAUTION: May be harmful if swallowed, inhaled, or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Do not breathe dust or vapor.

When handling the product, wear chemical resistant coveralls over long sleeved shirt, long pants, and chemical resistant gloves. Mixer/loaders should also wear a dust mask or respirator with appropriate dust filter, and goggles or face shield in addition to the above.

Vacate the area to be treated until the application is complete.

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

For foliar application in field nursery: DO NOT enter or allow worker or bystander entry into treated areas during the restricted entry interval (REI) of 12 hours. DO NOT sell, ship or export plants within 12 hours of treatment.

### User Safety Recommendations:

User should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at: [www.croplife.ca](http://www.croplife.ca).

## USE LIMITATIONS

Do **not** allow leachate runoff for the first 10 days after application, in order to retain the product and facilitate full plant uptake of the active ingredient. Do not apply to bedding plants intended to be used as food crops.

On plants with a production cycle of less than one year, do not apply more than once per crop. On stock plants and woody crops with a production cycle of greater than one year, do not apply more than once a year. Do not dispose of treated soil or otherwise contaminate sites outside of greenhouses.

Although soil treatments will minimize direct harm to non-target and beneficial invertebrates, INTERCEPT 60 WP may affect certain beneficial predators, parasites and pollinators which may be used in greenhouse ornamental and vegetable production.

## ENVIRONMENTAL HAZARDS

This product is highly toxic to aquatic invertebrates. Keep out of lakes, streams, ponds or other aquatic systems. Do not contaminate water when disposing of equipment washwaters.

**For Field and Container Grown Nursery Stock:** Do not apply within 30 metres of environmentally sensitive areas such as lakes, streams, rivers or other aquatic systems. Do not apply to terrains where there is a potential for surface run-off to enter aquatic systems. Do not mix, load or clean equipment within 30 metres of wellheads or aquatic systems.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Toxic to pollinators and certain beneficial insects. This product is systemic, and residues may be transported through plants into leaves, pollen and nectar. May harm pollinators and certain beneficial insects, including those used in greenhouse production.

Apply this product only in accordance with this label.

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

## FIRST AID

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 eyes 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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** No specific antidote is available. Treat the patient symptomatically.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE 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 original container and out of the reach of children, preferably in a locked storage area.

**PESTICIDE 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.

**CONTAINER DISPOSAL:** 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.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

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