



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.
100 – 3131 114th Avenue SE
Calgary, Alberta T2Z 3X2

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.

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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.

Section 4: Restricted Entry Interval

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
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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 treatment with ADMIRE 240 Flowable Systemic Insecticide soil

		<p>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>
Reduction in Numbers of larvae of the European Chafer	<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>
Colorado potato beetle, Aphids, Leafhoppers, Flea beetles	<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</p>

		<p>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) 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>
Colorado potato beetle, Aphids, Leafhoppers (suppression)	Foliar Application 200 mL/hectare	<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*; tanier; 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"> • In-furrow spray (rate specified per 100 row-m); • soil injection or shanked-in 2 to 5 cm below seed depth during planting; • 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.
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 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>

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.
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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
Aphids, Flea beetles, Leafhoppers	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: In-furrow spray (rate specified per 100 row-m) or, shanked-in 2 to 5 cm below seed depth during planting;
Reduction in Numbers of larvae of the European	Soil Application Field Drench 1200 mL/ha	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

Chafer		<p>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>Pre-Harvest Interval (PHI): 21 days</p> <p>Specific Information for reduction in numbers of larvae of the European chafer.</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 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>
Aphids, Leafhoppers (suppression)	Foliar Application 200 mL/ha	<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>

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	Transplant Tray Plug Drench 10.2 mL/1000 plants	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. 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.
Aphids	Soil Application 6.0 mL/100 m row (see rate conversion chart for row spacing calculations)	Apply specified dosage in one of the following methods: 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. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting. 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. 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.
Aphids, Leafhoppers (suppression)	Foliar Application 200 mL/hectare	Apply specified dosage as pest numbers begin to increase but before a damaging population becomes established. Scout fields and retreat if needed. For optimal control, good coverage of the foliage is needed. Refer to sprayer manual for recommended water volumes, pressures and correct settings. 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 5 days between foliar sprays. Pre-Harvest Interval (PHI): 7 days.

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"> • 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. • Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting. • 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. 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"> • 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. • Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting. • 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

		<p>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.</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): 21 days.</p>
Aphids, Leafhoppers (suppression)	<p>Foliar Application</p> <p>200 ml/ ha</p>	<p>Ground application only.</p> <p>Add sufficient water to provide good coverage. Good coverage is required to obtain sufficient control.</p> <p>Apply when economic thresholds indicate that treatment is required</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>Allow 7 days between applications.</p> <p>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	<p>Soil Application</p> <p>7.5 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> <ul style="list-style-type: none"> • 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. • Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting. • Post-seeding drench, transplant-water drench, or hill drench; use higher water volumes - sufficient to thoroughly wet the soil.

		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.
Aphids, Leafhoppers (suppression)	Foliar Application 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. Minimum interval between applications: 7 days Pre-Harvest Interval (PHI): 7 days.

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)	Apply specified dosage in one of the following methods <ul style="list-style-type: none"> • 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. • Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting. • Post-seeding drench, transplant-water drench, or hill drench; use higher water volumes - sufficient to thoroughly wet the soil. 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.
Colorado potato beetle, Aphids, Leafhoppers (suppression)	Foliar Application 200 mL/ha	Ground application only For optimal control, good coverage of the foliage is needed. For best results, time application before a damaging population becomes established. 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 5 days between foliar applications.

		Pre-Harvest Interval (PHI): 7 days.
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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	Soil Application 18 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 apply more than 1.165 L of ADMIRE 240 Flowable Systemic Insecticide per hectare per crop season. 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. ADMIRE 240 Flowable Systemic Insecticide provides early season control of cucumber beetle populations in direct seeded or transplanted cucurbits. Apply specified dosage in one of the following methods <ul style="list-style-type: none"> • 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. • Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting. • Post-seeding drench, transplant-water drench, or hill drench; use higher water volumes - sufficient to thoroughly wet the soil. Pre-Harvest Interval (PHI): 21 days.
Aphids	Soil Application 7.5 mL/100 m of 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 apply more than 1.165 L of ADMIRE 240 Flowable Systemic Insecticide per hectare per crop season. 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. ADMIRE 240 Flowable Systemic Insecticide provides early season control of cucumber beetle populations in direct seeded or transplanted cucurbits. Apply specified dosage in one of the following methods <ul style="list-style-type: none"> • 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. • Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting. • Post-seeding drench, transplant-water drench, or hill drench; use higher water volumes - sufficient to thoroughly wet the soil. 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.

		<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 use this application method on pickling cucumbers.</p>
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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	<p>Apply post-bloom only.</p> <p>Apply specified dosage as a dilute or concentrate foliar spray as needed after pollination is complete and bees have been removed from the orchard.</p> <p>Thorough uniform coverage of foliage is necessary for optimal control.</p>
Leafhoppers	Foliar Applications 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.</p> <p>Pre-Harvest Interval (PHI): 7 days.</p>
Mullein Bug, Tentiform leafminer*	Foliar Applications 380 mL/ha	<p>*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.</p>

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	Soil Application Field Drench	Apply to ground around and under cane plantings, headlands and other grassy areas around and under cane plantings. The need for and timing of application should be based on monitoring of the site, previous records or experiences, current

chafer and larvae of Japanese beetle	1200 mL/ha	<p>season adult trapping or other methods.</p> <p>Apply just prior to or during egg hatch of the target pest. 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. 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	Soil Application	The need for and timing of application should be based on

<p>Numbers of larvae of the European chafer and larvae of Japanese beetle</p>	<p>Field Drench 1200 mL/ha</p>	<p>monitoring of the site, previous records or experiences, current season adult trapping or other methods. 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. 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 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). 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 turf until after irrigation has occurred so that uniformity of application will not be affected. 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 apply ADMIRE 240 Flowable Systemic Insecticide during flowering of bushberries. Pre-Harvest Interval (PHI): 4 days.</p>
<p>Aphids, Leafhoppers (suppression)</p>	<p>Foliar Application 175 ml/ha</p>	<p>Ground application only Allow at least 7-10 days between applications. A maximum of two (2) foliar applications of ADMIRE 240 Flowable Systemic Insecticide may be made per crop per season.</p>
<p>Blueberry maggot</p>	<p>Foliar Application 230 - 350 ml/ha</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>Japanese Beetle Adult</p>	<p>Foliar Application 350 mL/ha</p>	<p>For optimal control, apply product in sufficient water for good coverage of foliage (up to 1000 L spray / ha). Apply post-bloom after bees have been removed. In blueberries, apply as a foliar spray for control of aphids in 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. Pre-Harvest Interval (PHI): 3 days.</p>
<p>For Juneberry (Serviceberry or Saskatoon)</p>	<p>Soil Application Field drench</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>berry only):</p> <p>Suppression of Woolly elm aphid, Woolly apple aphid</p>	<p>0.125 mL/plant</p>	<p>Do not apply pre-bloom or during bloom or when bees are actively foraging.</p> <p>Apply when aphid migration from elm to Saskatoon berry is 75-100% complete (early to mid-July).</p> <p>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.</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>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>
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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
<p>Leafhoppers</p>	<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"> • Subsurface side-dress shanked into the root-zone on both sides of the plants followed by irrigation; • Hill drench in sufficient water to insure incorporation into the root-zone followed by irrigation. <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 optimum results, make application(s) between bud-break and the pea-berry stage.</p> <p>Pre-Harvest Interval (PHI): 30 days.</p>
<p>Leafhoppers</p>	<p>Foliar Application</p>	<p>A maximum of two (2) foliar applications of ADMIRE 240 may be made per crop per year.</p>

	200 mL/ha	Minimum interval between applications: 14 days. Pre-Harvest Interval (PHI): 0 day.
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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	Soil Application 7.5-12 mL/100 m of row (see rate conversion chart for row spacing calculations)	Do not apply immediately prior to bud opening or during bloom or when bees are actively foraging. 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. 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. 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. For aphids, apply specified dosage of ADMIRE 240 Flowable Systemic Insecticide when growth begins in the spring. Aphid populations may be very low, but treatment is still necessary before formation and dispersal of winged aphids. 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. Pre-Harvest Interval (PHI): 30 days.
Reduction in Numbers of larvae of the European chafer	Soil Application Field Drench 1200 mL/ha	For strawberries, apply to fields before mulch is laid down. 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). 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>Avoid runoff or puddling of irrigation water following application.</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): 30 days.</p>
Aphids, Leafhoppers (suppression)	<p>Foliar Applications</p> <p>175 mL/ha</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>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>

CRANBERRY (*Vaccinium macrocarpon*)

Pests	Application and Rate	Remarks
Reductions in numbers of larvae of the European chafer	<p>Soil Application – Field Drench</p> <p>1200 mL/ha</p>	<p>Apply a single application during active egg-laying period of beetles.</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) 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>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): 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	Minimum interval between applications: 6 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.
Leafhoppers (suppression)	Foliar Application 200 mL/ha	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.

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 chart for row spacing calculations)	Apply specified dosage in one of the following methods: <ul style="list-style-type: none"> • In-furrow spray during planting directed on or below seed; • In-furrow spray or transplant-water drench during setting or transplanting; • Shanked-into or below eventual seed-line. 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. 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.
Aphids, Leafhoppers (suppression)	Foliar Application 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. Minimum interval between applications: 5 days 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. 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. Pre-Harvest Interval (PHI): 7 days.

HOP

Pests	Application and Rate	Remarks
Aphids	Foliar Application 230 mL/ha	Minimum interval between applications: 21 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): 28 days

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	Apply specified dosage in one of the following methods

	<p>7.5 mL/100 m of row</p> <p>(see rate conversion chart for row spacing calculations)</p>	<ul style="list-style-type: none"> • In-furrow spray directed on or below seed. • 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. • Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting. • Post-seeding drench, transplant-water drench, or hill drench; use higher water volumes - sufficient to thoroughly wet the soil. <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>
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GLOBE ARTICHOKE

Pests	Application and Rate	Remarks
Aphids, Leafhoppers (suppression)	<p>Foliar Application</p> <p>200 mL/ha</p>	<p>Minimum interval between applications: 7 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>

TOBACCO

Pests	Application and Rate	Remarks
Aphids, Flea beetles	<p>Soil Application</p> <p>8.5 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"> • In-furrow spray or transplant water drench during setting. 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 Flowable Systemic Insecticide must be incorporated into root zone. <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)</p>

		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 or phone 1-888-283-6847.

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