



GROUP	23	INSECTICIDE
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## MOVENTO® 240 SC Insecticide

For control of certain insects on listed fruit, vegetable and field crops  
in Field grown Balsam fir and Fraser fir, including Christmas Trees, and Conifer Seed Orchards

### COMMERCIAL

GUARANTEE: Spirotetramat..... 240 g/L

### SUSPENSION

Contains 1,2-benzisothiazolin-3-one at 0.04%,  
5-chloro-2-methyl-4-isothiazolin-3-one at 0.001% and 2-methyl-4-isothiazolin-3-one  
at 0.0004% as preservatives.

REGISTRATION NO. 28953 PEST CONTROL PRODUCTS ACT

READ THE LABEL BEFORE USING

POTENTIAL SKIN SENSITIZER

NET CONTENTS : \_\_ Litres

Product Information: 1-888-283-6847

[www.cropscience.bayer.ca](http://www.cropscience.bayer.ca)

Bayer CropScience Inc.

200-160 Quarry Park Boulevard 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)."

TABLE OF CONTENTS:

Section Number

GENERAL	Notices .....	1
INFORMATION	The Product .....	2
SAFETY AND	Precautions, Protective Clothing and Equipment .....	3
HANDLING	First Aid and Toxicological Information .....	4
	Environmental Hazards.....	5
	Storage .....	6
	Disposal.....	7
DIRECTIONS FOR USE	Crops and Pests .....	8
	Application Instructions and Use Limitations.....	9
	Rotational Crops.....	10
	Mixing Instructions .....	11
	Pre-harvest Intervals .....	12
	Resistance Management Recommendations .....	13

## GENERAL INFORMATION

### Section 1: Notices

**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.

### Section 2: The Product

MOVENTO<sup>®</sup> 240 SC Insecticide is a Suspension Concentrate formulation. Following application to plant foliage, MOVENTO<sup>®</sup> 240 SC Insecticide is fully systemic, moving through phloem and xylem to all plant tissues including new shoot, leaf and root growth. MOVENTO<sup>®</sup> 240 SC Insecticide is active primarily by ingestion by immature insect life stages. Application should be timed to coincide with an early threshold level in developing insect populations. MOVENTO<sup>®</sup> 240 SC Insecticide can be applied by airblast, aerial and ground application equipment.

## SAFETY AND HANDLING

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

#### PRECAUTIONS

#### KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed or absorbed through skin.

Potential skin sensitizer.

Avoid contact with skin or clothing.

Prolonged or frequent repeated skin contact may cause allergic reactions in some individuals.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove and wash contaminated clothing before reuse.

DO NOT apply this product using high-pressure hand wand equipment.

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

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

Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

#### PROTECTIVE CLOTHING AND EQUIPMENT:

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab or cockpit.

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

Users should:

- 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.

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Inc. at 1-888-283-6847 or [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca)

Section 4: First Aid and Toxicological Information
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#### FIRST AID:

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

If swallowed	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give <b>any</b> liquid to the person</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
If in eyes	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
If on skin or clothing	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li></ul>

	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control centre or doctor for further treatment advice.</li> </ul>

**TOXICOLOGICAL INFORMATION:**

Note to Physician: No specific antidote is available. Treat patient symptomatically

Section 5: Environmental Hazards
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TOXIC to aquatic organisms.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

TOXIC to bee brood. Bee Brood may be exposed to residues in/on pollen and nectar brought back to the hive by bees foraging on flowering crops and weeds. DO NOT apply this product during crop flowering period or when flowering weeds are present in the treatment area. Minimize spray drift to habitats close to the application site.

This product is TOXIC to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site, such as hedgerows and woodland.

TOXIC to non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

Section 6: Storage
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To prevent contamination, store this product away from food or feed.

MOVENTO® 240 SC Insecticide is packaged in poly-ethylene containers. Do not allow product or containers to freeze. 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.

Handle and open container in a manner as to prevent spillage. If container is leaking, invert to prevent leakage. If the container is leaking or material is spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away.

Section 7: Disposal
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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:

3. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
4. 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 cleanup of spills.

#### DIRECTIONS FOR USE

Section 8: Crops and Pests
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#### TREE AND VINE CROPS

Apply specified dosage of MOVENTO® 240 SC Insecticide early in the infestation as the population begins to develop or at early threshold for the target insect pest. The degree of control or suppression of labeled pests will be determined, in part, by the stage of pest development at application and infestation level of those pests.

Do not exceed the maximum amount of Movento 240 SC Insecticide per season.

Application rates within this label are based on mature trees and vines. Higher rates should be used for moderate to heavy insect pressure or where longer residual control is desired. Minimum application volumes: 500 L/ha for conventional ground airblast sprayer.

#### POME FRUIT

Crops of Crop Group 11-09 Including: Apple, Asian pear, Crabapples, Loquat, Mayhaw, Medlar, Pear, Oriental pear, Quince, Chinese quince, Tejocote, and all varieties and/or hybrids of these.

Pests controlled	Rate mL/ha	Remarks
Rosy apple aphid Apple aphids Whiteflies Pear psylla	365 - 435	Ground application only. Pre-Harvest Interval (PHI): 7 days. Minimum interval between applications: 14 days. Maximum MOVENTO 240 SC Insecticide allowed per crop season: 1.83 L/ha.
Mealybugs San Jose Scale	365 - 585	DO NOT use MOVENTO 240 SC Insecticide on pear trees when fruit is present due to the

		possibility of adverse effects on the harvested commodity.  Do not apply until after petal fall
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**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 above. 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.

Apple		
Pests suppressed	Rate mL/ha	Remarks
Apple leaf midge ( <i>Dasineura mali</i> )	365 - 585	Apply post-bloom (after petal fall and when monitoring indicates that populations are present). Maximum of 2 applications. Maximum MOVENTO 240 SC Insecticide allowed per crop season: 1.83 L/ha Pre-Harvest Interval (PHI): 7 days. Minimum interval between applications: 14 days. Foliar, broadcast application in sufficient volume to ensure thorough coverage, minimum 500 L/ha.

#### STONE FRUIT

**Crops of Crop Group 12-09:** Apricot; apricot, Japanese; cherry, black; cherry, Nanking; cherry, sweet; cherry, tart; Jujube, Chinese; nectarine; peach; plum; plum, American; plum, beach; plum, Canada; plum, cherry; plum, Chickasaw; plum, Damson; plum, Japanese; plum, Klamath; plum, prune; plumcot; sloe; cultivars, varieties, and/or hybrids of these.

Pests controlled	Rate mL/ha	Remarks
Aphids Whiteflies	365 - 435	Ground application only. Pre-Harvest Interval (PHI): 7 days.
Mealybugs	365 - 585	Minimum interval between applications: 14 days.

San Jose Scale		Maximum MOVENTO 240 SC Insecticide allowed per crop season: 1.12 L/ha.
White peach scale		
Pest suppressed		Do not apply until after petal fall
Lecanium scale	365 - 585	

**GRAPE and SMALL FRUIT VINE CLIMBING (except kiwifruit)**

Crops of Crop Subgroup 13F including: Amur river grape, Chinese egg gooseberry, Grape, Maypop (passionflower).

Pests controlled	Rate mL/ha	Remarks
Whiteflies	365 - 435	Ground application only. Pre-Harvest Interval (PHI): 7 days. Minimum interval between applications: 30 days. Maximum MOVENTO 240 SC Insecticide allowed per crop season: 920 mL/ha. DO NOT apply to table grapes.
Mealybugs Phylloxera	365 - 585	
Pests suppressed		
Lecanium scale	365 - 585	

**CROP SUBGROUP 13-07B: Bushberry Subgroup:** Blueberry, highbush, Blueberry, lowbush, Currant, black, Currant, red, Elderberry, Gooseberry, Huckleberry, Aronia berry, Buffalo currant, Chilean guava, European barberry, Highbush cranberry, Honeysuckle, edible, Jostaberry, Juneberry, Lingonberry, Native currant, Salal, Sea buckthorn, Cultivars, varieties and/or hybrids of these.

**CROP SUBGROUP 13-07H: Low Growing Berry Subgroup, Except Strawberry:** Blueberry, lowbush, bearberry, bilberry, cloudberry, cranberry, lingonberry, muntries, partridgeberry, cutivars, varieties and/or hybrids of these

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Pests controlled	Rate mL/ha	Remarks
Aphids	220 - 365	Apply post-bloom.
Blueberry Maggot ( <i>Rhagoletis mendax</i> ) Blueberry Gall Midge/-Cranberry Tipworm ( <i>Dasineura oxycoccana</i> )	365 - 435	Pre-Harvest Interval (PHI): 7 days. Minimum interval between applications: 7 days. Maximum MOVENTO 240 SC Insecticide allowed per crop season: 1.833 L/ha. Apply uniformly in 200 - 3000 L total volume/ha by ground.  For Blueberry Maggot and Aphids, apply when pests are detected.
Pests suppressed		
Lecanium Scale ( <i>Parthenolecanium spp.</i> )	365 - 585	For Blueberry Gall Midge/Cranberry Tipworm and Lecanium scale, apply at egg hatch.  For chemigation (cranberry only), the higher rate of Movento 240 SC and a maximum spray volume of 3000 L total volume are recommended for control (see <b>Chemigation Application Directions</b> for additional information).  For ground application, apply the lower rate of Movento 240 SC under low pest pressure and the higher rate of Movento 240 SC under higher pest pressure, high-density crop canopy, when pest development is extended (e.g., during cool weather) or when systemic action is critical (e.g., for blueberry gall midge/cranberry tipworm when buds are tightly closed or when applied after first egg hatch).

CROP SUBGROUP 13-07A: Berry and Small Fruit Crops -Caneberry: Blackberry raspberry (red and black) wild raspberry as well as cultivars, varieties and/or hybrids of these).

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Pests controlled	Rate mL/ha	Remarks
Aphids	220-365	Apply post-bloom Pre-Harvest Interval (PHI): 3 days. Minimum interval between applications: 7 days. Maximum number of applications per year: 3 Maximum MOVENTO 240 SC Insecticide allowed per year: 1,095 mL/ha. Apply in adequate water for uniform coverage; minimum 300 L/ha by ground.

#### TREE NUTS

**Crops of Crop Group 14-11:** almond; beechnut; bur oak; butternut; chestnut; chinquapin; ginkgo; hazelnut (filbert); heartnut; hickory nut; Japanese horse-chestnut; monkey puzzle nut; pecan; pine nut; walnut, black; walnut, English; yellowhorn; cultivars, varieties, and/or hybrids of these.

Pests controlled	Rate mL/ha	Remarks
Aphids Phylloxera Whiteflies	365 - 435	Ground application only. Pre-Harvest Interval (PHI): 7 days. Minimum interval between applications: 14 days.
Mealybugs San Jose Scale White peach scale	365 - 585	Maximum MOVENTO 240 SC Insecticide allowed per crop season: 1.58 L/ha.
Pests suppressed		Do not apply until after petal fall
Lecanium scale	365 - 585	

## HOPS

Pests controlled	Rate mL/ha	Remarks
Hop aphid	365 - 435	Ground application only. Pre-Harvest Interval (PHI): 7 days. Minimum interval between applications: 14 days. Maximum MOVENTO 240 SC Insecticide allowed per crop season: 920 mL/ha.

## VEGETABLE and FIELD CROPS

For all crops, apply specified dosage of MOVENTO® 240 SC Insecticide. For best results treatment should be made when insect populations begin to build and before a damaging population becomes established. Rate selected for use should depend on stage of pest development at application and infestation level of those pests. Apply in adequate water for uniform coverage; minimum 300 L/ha by ground, except as otherwise indicated. Repeat application at a 7- to 10-day interval if monitoring indicates this is required. Do not exceed the maximum amount of Movento 240 SC Insecticide per season.

## GLOBE ARTICHOKE

**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:**

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Pests controlled	Rate mL/ha	Remarks
Aphids	220 - 365	Pre-harvest interval: 3 days. Apply when aphids are first noticed. Apply in adequate water for uniform coverage, minimum 200 L/ha by ground. Reapply at a minimum interval of 7 days as needed. Maximum MOVENTO ® 240 SC Insecticide allowed per year: 1.833 L/ha.

### TUBEROUS AND CORM VEGETABLES (INCLUDING POTATOES)

Crops of Crop Subgroup 1C Including: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Canna (edible), Cassava (bitter and sweet), Chayote (root), Chufa, Dasheen (taro), Ginger, Leren, Potato, Sweetpotato, Tanier, Turmeric, Yam bean, Yam (true).

Pests controlled	Rate mL/ha	Remarks
Aphids Psyllids Whiteflies	220 - 365	Potatoes may be treated by ground or aerial application equipment. Other crops in this group may be treated by ground application equipment only. Pre-Harvest Interval (PHI): 7 days. Minimum interval between applications: 7 days. Maximum MOVENTO 240 SC Insecticide allowed per crop season: 730 mL/ha.

### CARROT

Pests controlled	Rate mL/ha	Remarks
Aphids Whiteflies	220 - 365	Ground application only. Apply in adequate water for uniform coverage, minimum 200 L/ha by ground. Pre-Harvest Interval (PHI): 1 day. Minimum interval between applications: 7 days. Maximum MOVENTO 240 SC Insecticide allowed per crop season: 730 mL/ha.

### SUGARBEET

Pests controlled	Rate mL/ha	Remarks
Aphids Whiteflies	220 - 365	Ground application only. Apply in adequate water for uniform coverage, minimum 200 L/ha by ground. Pre-Harvest Interval (PHI): 28 days. Minimum interval between applications: 14 days.

		Maximum MOVENTO 240 SC Insecticide allowed per crop season: 1.316 L/ha.
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## BULB VEGETABLES

Crop SubGroup 3-07A Bulb Onion Subgroup: Garlic, bulb Garlic, great-headed, bulb, Onion, bulb, Shallot, bulb, Onion, potato, bulb, Daylily, bulb, Fritillaria, Garlic, serpent, bulb, Lilium, Onion, Chinese, bulb, Onion, Pearl

CROP SUBGROUP 3-07B: Green Onion Subgroup: Leek, Onion, green, Onion, Welsh, tops, Shallot, fresh leaves, Chive, fresh leaves, Chive, Chinese, fresh leaves, Elegans hosta, Fritillaria, Kurrat, Lady's leek, Onion, Beltsville bunching, Onion, fresh, Onion, macrostem, Onion, tree, tops, Wild leek

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Pests controlled	Rate mL/ha	Remarks
Onion Thrips (larvae)	365	<p>Bulb Vegetables 3-07A Pre-harvest interval: 3 days.</p> <p>Bulb Vegetables 3-07B Pre-harvest interval: 7 days.</p> <p>Apply in a minimum volume of 200 L water/ha.</p> <p>Maximum of 2 applications per crop season with a minimum of 7 days between applications.</p> <p>Maximum MOVENTO® 240 SC Insecticide allowed per crop season: 730 mL/ha.</p> <p>Apply when thrips are first noticed. Movento should be used during the first half of the season when adult populations are relatively low or building. Reductions in numbers of thrips larvae may take 3 to 4 days after Movento is applied.</p>

#### LEAFY VEGETABLES - NON-BRASSICA

Crops of Crop Group 4 Including: Amaranth (leafy amaranth, Chinese spinach, tampala), Arugula (Roquette), Cardoon, Celery, Celtuce, Chervil, Chinese celery, Chrysanthemum (edible-leaved and garland), Corn salad, Cress (garden), Cress (upland, yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Florence fennel (sweet anise, sweet fennel, Finocchio), Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Radicchio (red chicory), Rhubarb, Spinach [including New Zealand and vine (Malabar spinach, Indian spinach)], Swiss chard.

Pests controlled	Rate mL/ha	Remarks
Aphids Whiteflies	220 - 365	Ground application only. Pre-Harvest Interval (PHI): 3 days. Minimum interval between applications: 7 days.
Onion thrips (larvae)	365	Maximum MOVENTO 240 SC Insecticide allowed per crop season: 730 mL/ha. For onion thrips: Apply when thrips are first identified. Movento should be used during the first half of the season when adult populations are relatively low or building. Reductions in numbers of thrips larvae may take 3 to 4 days after Movento is applied.

#### LEAFY VEGETABLES - BRASSICA (COLE)

Crops of Crop Group 5 Including: Broccoli, Broccoli raab (*rapini*), Brussels sprouts, Cabbage, Cauliflower, Cavalo broccolo, Chinese broccoli (*gai lon*), Chinese mustard cabbage (*gai choy*), Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Rape greens.

Pests controlled	Rate mL/ha	Remarks
Aphids Whiteflies Swede Midge Larvae	220 - 365	Ground application only. Pre-Harvest Interval (PHI): 1 day. Minimum interval between applications: 7 days. Maximum MOVENTO 240 SC Insecticide allowed per crop season: 730 mL/ha. Apply when swede midge larvae are first noticed For swede midge larvae, use of the high rate is recommended when pest pressure is high

## LEGUME VEGETABLES

Crops of Crop Group 6 (except soybean, dry) including:

Edible Podded and Succulent Shelled Pea and Bean and Dried Shelled Pea and Bean:

Bean (*Lupinus* spp., including grain lupin, sweet lupin, white lupin, and white sweet lupin);

Bean (*Phaseolus* spp., including field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean);

Bean (*Vigna* spp., including 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. including 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 controlled	Rate mL/ha	Remarks
Aphids Whiteflies	185 - 275	Ground application only. Pre-Harvest Interval (PHI): 1 day (edible podded and succulent beans and peas); 7 day (dry shelled beans and peas). Minimum interval between applications: 7 days. Maximum MOVENTO 240 SC Insecticide allowed per crop season: 730 mL/ha.

## SOYBEAN

Pests controlled	Rate mL/ha	Remarks
Aphids Whiteflies	185 - 275	Soybeans may be treated by ground or aerial application equipment. Pre-Harvest Interval (PHI): 21 days. Minimum interval between applications: 7 days. Maximum MOVENTO 240 SC Insecticide allowed per crop season: 730 mL/ha.

## FRUITING VEGETABLES

Crops of Crop Group 8-09 Including: African Eggplant, Bush tomato, Cocona, Currant tomato, Eggplant (including cultivars and/or hybrids of this), Garden huckleberry, Goji berry, Groundcherry, Martynia, Naranjilla, Okra, Pea eggplant, Pepino, Peppers (including all peppers

i.e. bell, non-bell, hot, sweet, etc., and cultivars and/or hybrids of these), Roselle, Scarlet eggplant, Sunberry, Tomatillo, Tomato (including cultivars and/or hybrids of this), Tree tomato.

Pests controlled	Rate mL/ha	Remarks
Aphids Psyllids Whiteflies	220 – 365	Ground application only. Pre-Harvest Interval (PHI): 1 day. Minimum interval between applications: 7 days. Maximum MOVENTO 240 SC Insecticide allowed per crop season: 730 mL/ha.

#### CUCURBIT VEGETABLES

Crops of Crop Group 9 Including: 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 controlled	Rate mL/ha	Remarks
Aphids Whiteflies	220 – 365	Ground application only. Pre-Harvest Interval (PHI): 1 day. Minimum interval between applications: 7 days. Maximum MOVENTO 240 SC Insecticide allowed per crop season: 730mL/ha.

#### SWEET CORN

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listed above. 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.

Pests controlled	Rate mL/ha	Remarks
Aphids	220 - 365	Apply after pollen shed. Pre-harvest interval: 7 days. Apply when aphids are first noticed. Minimum interval between applications: 7 days. Apply in a minimum spray volume of 200 L/ha. Maximum MOVENTO® 240 SC Insecticide allowed per crop season: 1.1 L/ha. DO NOT apply within 7 days of harvest for forage or within 50 days if the crop is being harvested for silage.

**FIELD GROWN BALSAM FIR AND FRASER FIR, INCLUDING CHRISTMAS TREES**

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Pests controlled	Rate mL/ha	Remarks
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Balsam Gall Midge (Paradiplosis tumifex Gagne)	585	<p>First application timed for egg hatch stage when adult emergence has peaked. This normally occurs after bud break when needles start flaring.</p> <p>Maximum number of applications: 2.</p> <p>Interval between applications: 7 days.</p> <p>Apply with non-ionic surfactant 0.25% v/v.</p> <p>Water volume: a minimum of 500 L/ha.</p> <p>Maximum MOVENTO® 240 SC Insecticide allowed per crop season: 1.17 L/ha.</p>
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CONIFER SEED ORCHARDS

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 above. 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.

Pests controlled	Rate mL/ha	Remarks
(Douglas-fir cone gall midge ( <i>Contarinia oregonensis</i> ), Spruce cone axis midge ( <i>Kaltenbachiola rachiphaga</i> ), Western redcedar cone midge ( <i>Mayetiola thujae</i> ))	585	Spray when the first 25% of strobili (female “flowers”) are open for pollination. Late bloomers will still be closed. Apply a second spray when the last 25% of strobili have just opened. Early bloomers will have closed.  Minimum interval between applications: 7 days  Apply with non-ionic surfactant 0.25% v/v. Water volume: a minimum of 500 L/ha. Maximum MOVENTO® 240 SC Insecticide allowed per crop season: 1.17 L/ha.

Section 9: Application Instructions and Use Limitations
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MOVENTO 240 SC Insecticide must be tank-mixed with a spray adjuvant / additive having spreading and penetrating properties to maximize leaf uptake and systemicity of the active ingredient within treated plants. The adjuvant type must be one of the following: non-ionic (e.g., Agral 90 or Ag-surf), methylated seed oil (e.g., Hasten), or horticultural oil. Prior to the use of a surfactant with MOVENTO 240 SC Insecticide in tree fruit and grapes, the mixture must be tested in a small area to ensure no risk of phytotoxicity. Use of any blended adjuvant is not permitted. Horticultural oil adjuvants may be used on pome fruit only. DO NOT use MOVENTO 240 SC Insecticide on pear trees when fruit is present due to the possibility of adverse effects on the harvested commodity. It is widely known that a tank-mix and/or sequential treatments that include adjuvants with Captan may cause adverse effects in tree fruit and grapes; including MOVENTO 240 SC Insecticide in this tank-mix and/or sequential treatment scenario is not recommended. DO NOT tank-mix MOVENTO 240 SC Insecticide with sulphur.

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), estuarine/ marine habitats.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) fine classification. Boom height must be 60 cm or less above the crop or ground.

Airblast application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

Aerial application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) fine classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotor-span.

## **Generic Aerial Application Label Instructions - Directions for Use**

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label. Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

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

### **Use Precautions**

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

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

### **Operator Precautions**

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

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

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

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

## **Chemigation Application (Cranberry only)**

Types of Irrigation Systems: MOVENTO® 240 SC may be applied through sprinkler type irrigation systems only. These types include: center pivot, lateral move, side roll, or overhead solid set irrigation systems. Do not apply MOVENTO® 240 SC through any other type of irrigation system.

Injection for Chemigation: Inject the specified dosage of MOVENTO® 240 SC into the irrigation main water stream: (1) through a constant flow, metering device; (2) into the center of the main line flow via a pitot tube or equivalent; (3) at a point ahead of at least one, right-angle turn in the main stream flow such that thorough mixing with the irrigation water is ensured.

Uniform Water Distribution and System Calibration: The irrigation system must provide uniform distribution of MOVENTO® 240 SC treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in or on the crop can result from non-uniform distribution. The system must be calibrated to uniformly distribute the rates specified for chemigation application to specific crops. If you have questions about calibration, contact a provincial agricultural specialist, equipment manufacturers, or other experts.

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

Required Injection and Sprinkler System Safety Devices: 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. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection. 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. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor/engine stops; or in cases where there is no water pump, when water pressure decreases to the point where pesticide distribution is adversely affected. Injection systems must use a metering pump or equivalent, such as a positive displacement injection pump (e.g., diaphragm pump, venture injection) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Using Water from Public Water Systems: Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the 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. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection. 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. 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. 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.

**Cleaning the Chemical Injection System:** In order to apply pesticides accurately, the chemical injection system must be kept clean, free of chemical or fertilizer residues and sediments. Refer to your owner's manual or ask your equipment supplier for the cleaning procedure for your injection system.

**Flushing the Irrigation System:** At the end of the application period, allow time for all lines to flush the pesticide through all nozzles or emitters before turning off irrigation water. To ensure the lines are flushed and free of pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

**Center-Pivot and Automatic-Move Linear Systems:** Inject the specified dosage per hectare continuously for one complete revolution (center pivot) or move of the system. The system should be run at maximum speed. It is recommended that nozzles in the immediate area of control panels, chemical supply tanks, pumps and system safety devices be plugged to prevent chemical contamination of these areas. The use of END GUNS is **NOT RECOMMENDED**. End guns that provide uneven distribution of treated water can result in lack of effectiveness or illegal pesticide residues in or on the crop.

**Solid Set and Manually Controlled Linear Systems:** Injection should be during the last 30 to 60 minutes of regular irrigation period or as a separate 30 to 60 minute applications not associated with a regular irrigation.

#### **BUFFER ZONES:**

Spot treatments using hand-held equipment **DO NOT** require a buffer zone.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands).

Method of application	Crop		Buffer Zones (metres) Required for the Protection of Terrestrial Habitat
Field sprayer*	Field Crops Field grown Balsam fir and Fraser fir, including Christmas Trees; Conifer Seed Orchards		1
Airblast	Orchard Crops; Field grown Balsam fir and Fraser fir, including Christmas Trees; Conifer Seed Orchards	Early growth stage	2
		Late growth stage	1
Aerial	Soybean and potato	Fixed or rotary wing	15

\*For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

Section 10: Rotational Crops
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Plant back interval: A plant back restriction of 30 days is required for all crops not on the label.

Section 11: Mixing Instructions
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MOVENTO® 240 SC Insecticide is subject to phase separation during storage. Vigorous shaking to re-suspend the product is required before using.

The proper mixing procedure for MOVENTO® 240 SC Insecticide is:

- 1) Fill the spray tank 1/2 full with clean water;
- 2) Add the required amount of MOVENTO® 240 SC Insecticide,
- 3) Fill spray tank to desired level and maintain constant agitation to ensure uniformity of spray mixture.



Section 12: Pre-harvest Intervals

Crop	Pre-harvest interval (days)
Pome fruit	7
Stone fruit	7
Grape and small fruit vine climbing	7
Bushberry Subgroup 13-07B	7
Low Growing Berry Subgroup 13-07-H	7
Tree nuts	7
Hops	7
Globe Artichoke	3
Bulb Vegetables 3-07A	3
Bulb Vegetables 3-07B	7
Tuberous and corm vegetables	7
Leafy vegetables – non-brassica	3
Leafy vegetables – brassica (cole)	1
Edible podded and succulent beans and peas	1
Dry shelled beans and peas	7
Soybeans	21
Fruiting vegetables	1
Cucurbit vegetables	1
Sweet Corn	7
Carrot	1
Sugarbeet	28

Section 13: Resistance Management Recommendations

For resistance management, please note that MOVENTO<sup>®</sup> 240 SC Insecticide contains a Group 23 insecticide. Any insect population may contain individuals naturally resistant to MOVENTO<sup>®</sup> 240 SC Insecticide and other Group 23 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 MOVENTO<sup>®</sup> 240 SC Insecticide or other Group 23 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 MOVENTO<sup>®</sup> 240 SC 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 via internet at [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca) or phone 1-888-283-6847.

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