

2007-5011
17-JUN-2010



GROUP	3 & 4	INSECTICIDES
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CONCEPT LIQUID INSECTICIDE

For control of listed insect pests in certain fruit and vegetable crops

COMMERCIAL

Suspension

WARNING EYE IRRITANT



REGISTRATION NUMBER 29611 PEST CONTROL PRODUCTS ACT

GUARANTEE:	Imidacloprid	75 g/L
	Deltamethrin	10 g/L

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 1 - 1000 LITRES

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

For product information and in case of spills, poisoning, fire or other emergencies,
call 1-888-283-6847

Concept Liquid Insecticide is a dual action, dispersion concentrate insecticide which provides both contact and systemic activity. Concept Liquid Insecticide provides control of key insect pests in fruit and vegetable crops.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed or absorbed through the skin. Causes eye irritation. Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, or smoking. If product comes in contact with clothing, remove all contaminated clothing, wash skin with soap and water and dress in clean clothing. Launder applicator clothing separate from other laundry.

PROTECTIVE CLOTHING AND EQUIPMENT:

Wear a long-sleeved shirt and long pants, chemical-resistant gloves, and socks and boots during mixing, loading, application, cleanup, and repair. In addition, wear goggles or face shield during mixing, loading, clean-up, and repair.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

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

FIRST AID:

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

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

TOXICOLOGICAL INFORMATION:

Treat symptomatically. Medical Personnel should contact Bayer's Medical Information Services, Toll-Free at 1-800-334-7577.

ENVIRONMENTAL PRECAUTIONS:

Highly toxic to fish and other aquatic organisms. Do not allow spray drift to come in contact with lakes, streams, rivers, ponds and other aquatic areas. Do not apply where runoff is likely to occur. Runoff from treated areas may be hazardous to aquatic organisms in neighbouring areas. Do not apply product within 15 metres of well-heads or aquatic systems, including marshes, ponds, ditches, streams, lakes, etc. Do not mix, load or clean spray equipment within 30 metres of well-heads or aquatic systems.

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

STORAGE:

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

This product cannot be stored below freezing.

If stored for 1 year or longer, shake well before using.

Store the tightly closed container away from feeds, seeds, fertiliser, plants and foodstuffs.

Do not use or store in or around the home.

Keep in original container during storage.

In case of fire, leaking or damaged containers, call toll free 1-800-334-7577.

DISPOSAL:

RECYCLABLE CONTAINER DISPOSAL:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.

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

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

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.

DISPOSAL OF UNUSED SPRAY SOLUTION:

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, away from water supplies, ditches, and irrigation canals.

Bayer and Concept are registered trademarks of Bayer.



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CONCEPT LIQUID INSECTICIDE

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For more information contact:

Bayer CropScience Inc.
200-160 Quarry Park BLVD., SE
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GENERAL INFORMATION

Section 1: The Product

Concept Liquid Insecticide is a dual action, dispersion concentrate insecticide which provides both contact and systemic activity. Concept Liquid Insecticide provides control of key insect pests in fruit and vegetable crops.

SAFETY AND HANDLING

Section 2: Precautions, Protective Clothing and Equipment, and Re-entry Restriction.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed or absorbed through the skin. Causes eye irritation. Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, or smoking. If product comes in contact with clothing, remove all contaminated clothing, wash skin with soap and water and dress in clean clothing. Launder applicator clothing separate from other laundry.

PROTECTIVE CLOTHING AND EQUIPMENT:

Wear a long-sleeved shirt and long pants, chemical-resistant gloves, and socks and boots during mixing, loading, application, cleanup, and repair. In addition, wear goggles or face shield during mixing, loading, clean-up, and repair.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

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

Section 3: First Aid and Toxicological Information

FIRST AID:

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

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

TOXICOLOGICAL INFORMATION:

Treat symptomatically. Medical Personnel should contact Bayer's Medical Information Services, Toll-Free at 1-800-334-7577.

Section 4: Environmental Precautions

ENVIRONMENTAL PRECAUTIONS:

Highly toxic to fish and other aquatic organisms. Do not allow spray drift to come in contact with lakes, streams, rivers, ponds and other aquatic areas. Do not apply where runoff is likely to occur. Runoff from treated areas may be hazardous to aquatic organisms in neighbouring areas. Do not apply product within 15 metres of well-heads or aquatic systems, including marshes, ponds, ditches, streams, lakes, etc. Do not mix, load or clean spray equipment within 30 metres of well-heads or aquatic systems.

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

Section 5: Storage

STORAGE:

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

This product cannot be stored below freezing.

If stored for 1 year or longer, shake well before using.

Store the tightly closed container away from feeds, seeds, fertiliser, plants and foodstuffs.

Do not use or store in or around the home.

Keep in original container during storage.

In case of fire, leaking or damaged containers, call toll free 1-800-334-7577.

Section 6: Disposal

RECYCLABLE CONTAINER DISPOSAL:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

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

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

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.

DISPOSAL OF UNUSED SPRAY SOLUTION:

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, away from water supplies, ditches, and irrigation canals.

DIRECTIONS FOR USE

Section 7: Crop, Insect, Rate, Timing

Apply Concept Liquid Insecticide only by the method indicated in the DIRECTIONS FOR USE table. When applying Concept Liquid Insecticide using ground application equipment, use sufficient water for thorough coverage (i.e., a minimum 100-200 litres of water per hectare). Apply once the target pest population has reached economic thresholds according to local recommendations. Repeat application if pest populations reach potentially damaging levels. Allow at least 5 days between applications. Do not exceed the maximum number of applications indicated in the DIRECTIONS FOR USE table. Do not apply Concept Liquid Insecticide following a seed treatment or soil application of a Group 4 Insecticide.

CROP	INSECT	RATE mL/ha	TIMING
Potato	Colorado potato beetle, Aphids, Leafhopper, Potato flea beetle, Tarnished plant bug, European corn borer (suppression)	650	Ground application only. Apply once the target pest population has reached economic thresholds according to local recommendations. Repeat if pest populations reach potentially damaging levels. Allow a minimum of 5 days between applications. Do not apply more than 3 applications of Concept Liquid Insecticide in a year. Application timing of Concept Liquid Insecticide is critical to the control European corn borer. It is recommended to only use Concept Liquid Insecticide to control European corn borer when timing of application coincides with the timing for another pest on the label for potatoes. It is recommended only to use Concept Liquid Insecticide to control tarnished plant bug when timing of application coincides with the timing for another pest on the label for potatoes. Do not apply Concept Liquid Insecticide following a soil application of a Group 4 Insecticide.

Tomato	Colorado potato beetle, Tomato hornworm	650	Ground application only. Apply once the target pest population has reached economic thresholds according to local recommendations. Repeat if pest populations reach potentially damaging levels. Allow a minimum of 5 days between applications. Do not apply more than 3 applications of Concept Liquid Insecticide in a year. It is recommended only to use Concept Liquid Insecticide when targeting both tomato hornworm and Colorado potato beetle at the same time. Do not apply Concept Liquid Insecticide following a seed treatment or soil application of a Group 4 Insecticide.
Head and stem brassica crop sub-group 5A: Broccoli, Chinese broccoli, Brussels sprouts, Cabbage, Chinese cabbage (napa), Chinese mustard cabbage, Cauliflower, Cavalo broccolo, Kohlrabi	Imported cabbageworm, Diamondback moth, Cabbage looper, Crucifer flea beetle, Aphids	650	Ground application only. Apply once the target pest population has reached economic thresholds according to local recommendations. Repeat if pest populations reach potentially damaging levels. Allow a minimum of 5 days between applications. Do not apply more than 3 applications of Concept Liquid Insecticide in a year. It is recommended only to use Concept Liquid Insecticide to control cabbage looper, diamondback moth, imported cabbageworm and crucifer flea beetle when the timing of application coincides with the timing for aphids. Do not apply Concept Liquid Insecticide following a seed treatment or soil application of a Group 4 Insecticide.
Blueberry	Blueberry aphid	560	Ground application only. Apply once the target pest population has reached economic thresholds according to local recommendations. Repeat if pest populations reach potentially damaging levels. Allow a minimum of 5 days between applications. Do not apply more than 3 applications of Concept Liquid Insecticide in a year. In low bush blueberries, apply post bloom during fruit producing years and anytime during the vegetative year. In high bush blueberries, apply post bloom. Do not apply Concept Liquid Insecticide following a soil application of a Group 4 Insecticide.
Soybean	Soybean aphid, Bean leaf beetle	325-650	Ground application only. Apply once the target pest population has reached

	(suppression), Japanese beetle		economic thresholds according to local recommendations. Repeat if pest populations reach potentially damaging levels. Allow a minimum of 5 days between applications. Do not apply more than 3 applications of Concept Liquid Insecticide in a year. Do not apply Concept Liquid Insecticide following a seed treatment or soil application of a Group 4 Insecticide.
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Do not allow worker entry into treated areas for a restricted entry interval (REI) of 2 days after an application, for irrigation, topping, tying, thinning, and hand pruning for Head and stem brassica crop sub-group 5A.

Section 8: Use Restrictions and Limitations

USE RESTRICTIONS:

When using Concept Liquid Insecticide, do not apply more than three times in a year to support sound resistance management strategies.

For blueberries, do not apply more than 1.68 L of Concept Liquid Insecticide in a year.

For potato, tomato, head and stem brassica crop sub-group 5A and soybean, do not apply more than 1.95 L/ha of Concept Liquid Insecticide in a year.

Do not tank mix Concept Liquid Insecticide with pesticides, fertilizers or any other chemical additives unless recommended on this label.

Section 9: Rotational crops

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 Concept Liquid 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.

Section 10: Application Precautions

APPLICATION PRECAUTIONS:

Concept Liquid Insecticide must be applied with properly calibrated, clean equipment. Do not apply this product through any type of irrigation system. Do not contaminate aquatic habitats when cleaning and rinsing spray equipment or containers. 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. Apply only when there is a very low risk of drift to areas of human habitation or activity such as houses, cottages, schools and recreational areas. To determine the risk of drift, take into consideration wind speed, wind direction, temperature, application equipment and sprayer settings.

GROUND APPLICATION:

Do not apply during periods of dead calm or when winds are gusty (greater than 12-15 km per hour). Overspray and drift to sensitive habitats must be avoided. A buffer zone of 8 metres is required between the downwind point of direct application and the closest edge of estuarine/marine habitats.

PRODUCT SPECIFIC PRECAUTIONS:

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-888-283-6847 or obtain technical advice from the distributor or your provincial agricultural representative.

Section 11: Mixing Instructions

MIXING INSTRUCTIONS:

Prior to adding Concept Liquid Insecticide to the spray tank, ensure that the spray tank is thoroughly clean. Add one-half of the required amount of water to the spray or mixing tank and start agitation. Add the required quantity of Concept Liquid Insecticide to the water and complete filling with water to the required total volume. Maintain agitation throughout mixing and spraying. If spray mixture remains in the tank overnight, or for long periods during the day, agitate thoroughly prior to application.

Section 12: Pre-harvest Interval

Do not apply within 7 days of harvest for potato, tomato, and Head and stem brassica sub-group 5A. Do not apply within 14 days of harvest for blueberry. Do not apply within 20 days of harvest for soybean.

Section 13: Resistance Management

RESISTANCE MANAGEMENT RECOMMENDATIONS: For resistance management, please note that Concept Liquid Insecticide contains both Group 3 and Group 4 insecticides. Any insect population may contain individuals naturally resistant to Concept Liquid Insecticide and other Group 3 or Group 4 insecticides. The resistant individuals may dominate the insect population if these insecticides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of

action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of Concept Liquid Insecticide or other Group 3 and 4 insecticides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an integrated pest management (IPM) program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact a Bayer CropScience representative at 1-888-283-6847 or at bayercropscience.com.

Section 14: 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.

For more information contact:

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