

PMRA APPROVED
2011-0571
17-MAR-2011

Container label

DuPont

GROUP	4	INSECTICIDE
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ASSAIL 70 WP Insecticide
Wettable powder
Contains Acetamiprid

AGRICULTURAL

GUARANTEE: Acetamiprid.....70%



WARNING

POISON

WARNING CONTAINS THE ALLERGEN SULFITES

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

REGISTRATION NO. 27128 PEST CONTROL PRODUCTS ACT

Registered by:

NIPPON SODA CO., LTD
2-1,2 CHOME OHEMACHI
CHIYODA-KU, TOKYO
100-8165
JAPAN

Distributed by:

E. I. DUPONT CANADA
COMPANY
AGRICULTURAL PRODUCTS
P.O. BOX 2300, STREETSVILLE,
MISSISSAUGA, ONTARIO
L5M 2J4
1-800-667-3925

FOR MEDICAL EMERGENCIES AND TRANSPORTATION EMERGENCIES SUCH AS
SPILLS, LEAKS OR FIRES, CALL 1-800-424-9300 (24 HOURS).

NET CONTENTS: 340g – 1.2 kg

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing vapours or spray mist. Avoid contact with eyes, skin or clothing. Keep out of reach of domestic animals. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment. If no such instructions for washables, use detergent and hot water. Keep and wash personal protective equipment 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.

Personal Protective Equipment:

Workers must wear long-sleeved shirt, long pants, chemical-resistant gloves, and socks plus shoes, when mixing, loading, applying, and for clean-up and repair.

For potato crop and sweet corn and alfalfa seed

When using more than 7 kg, to a maximum of 19 kg of product per day, workers must wear chemical-resistant coveralls over long-sleeved shirt, long pants, chemical-resistant gloves, and dust/mist filtering respirator (NIOSH/MSHA approval number prefix TC-21C, or a NIOSH approved respirator with any N, R, P, or HE filter) when mixing, loading, and for clean-up and repair.

Restricted Entry Interval:

Do not enter or allow worker entry into treated areas until the restricted entry interval of 12 hours following application, unless otherwise stated for individual crops.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests. Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes

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

ENVIRONMENTAL HAZARDS:

To reduce runoff from treated areas into aquatic habitats avoid application to areas with 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 aquatic organisms and to non-target terrestrial plants. Observe buffer zones under DIRECTIONS FOR USE.

Toxic to bees exposed to direct treatment, drift, or residues in flowering crops or weeds. 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 application site.

FIRST AID:

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

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

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

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

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

TOXICOLOGICAL INFORMATION:

There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient.

STORAGE CONDITIONS:

Do not store in or around the home. Store unused product in a cool, ventilated, dry, locked area. Do not allow prolonged storage in areas where temperatures frequently exceed 46°C (115°F). Never transfer this product to another container for storage. To prevent contamination store this product away from food or feed.

DISPOSAL:

For recyclable containers

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

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

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

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

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

For containers that can be refilled for the user by the distributor/dealer

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

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

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

Booklet

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DIRECTIONS FOR USE:

METHOD OF APPLICATION: Applications can be made by ground equipment in all provinces. **DO NOT APPLY BY AIR.**

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.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Specified buffer zones should be observed.

Operator Precautions

Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations for the groundboom application. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing and vehicle cabs must be decontaminated regularly.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call E. I. DUPONT CANADA COMPANY at 1-800-667-3925 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

1. ASSAIL 70 WP Insecticide must comply with the volume rates of not less than 200 L/ha.
2. Effective swath width (as determined by boom width and spray volume overlaps) must be accurately maintained. Conduct tests to determine the effective swath width. (For example, the effective swath width may be less than one-half of the overall swath).
3. Orient nozzles to achieve desired minimum droplet density and maximum coverage.
4. Efficient track-marking is essential.

Buffer zones (Ground Application):

The use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

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, rangelands, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Buffer Zones (metres) Required for the Protection of:	
	Aquatic Habitat	Terrestrial habitat
Field sprayer*	20	2
Airblast	30	10

*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 or ground, 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 or ground, the labelled buffer zone can be reduced by 30%.

APPLICATION TIMING:

Begin application when insect populations reach recognized economic threshold levels. Consult the provincial extension service, or professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

MIXING INSTRUCTIONS

ROW CROPS

1. Fill tank $\frac{1}{4}$ full with the required amount of total spray volume of water.
2. Add ASSAIL 70 WP Insecticide at recommended rates for the pest and crop type and begin agitation.
3. Continue to fill tank while directing stream of water onto any floating ASSAIL 70 WP Insecticide.
4. Allow to mix in tank for 2 minutes or until thoroughly mixed before applying.

Apply a minimum finished spray volume of 200 L/ha by ground for potatoes unless otherwise directed under crop specific directions. For best results, it is important to obtain thorough and uniform spray coverage of the plant. Use higher dosage rates for heavy infestations, dense

foliage, or for control of adult Colorado potato beetle. The specific length of residual control depends on environmental factors, plant growth, dosage rate, and degree of insect infestation.

To clean the sprayer after use, drain and flush with water. Use rinsings on crop according to label instructions or dispose of in an approved manner (See Storage and Disposal).

ORCHARD AND VINEYARD CROPS

To achieve optimum pest control, it is important to obtain thorough and uniform spray coverage of the plant. Choose a finished spray volume appropriate for the size of tree or vine and amount of foliage that will provide thorough coverage throughout the canopy. For certain pests, also follow recommendations listed under specific crop directions.

Use higher dosage rates for heavy infestations or dense foliage. The specific length of residual control depends on environmental factors, plant growth, dosage rate, and degree of insect infestation.

To clean the sprayer after use, drain and flush with water. Use rinsings on crop according to label instructions or dispose of in an approved manner (See Storage and Disposal).

INTEGRATED PEST MANAGEMENT (IPM) USE OF THIS PRODUCT

ASSAIL 70 WP Insecticide can be effectively utilized in IPM programs. ASSAIL 70 WP Insecticide has been shown to leave substantial populations of many beneficial insects and spiders after use. The lower rates allow for maximum beneficial survival and faster rebound of beneficial populations.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, ASSAIL 70 WP Insecticide is a Group 4 insecticide. Any insect population may contain individuals naturally resistant to Assail 70 WP Insecticide and other Group 4 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of ASSAIL 70 WP Insecticide 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 E. I. DUPONT CANADA COMPANY at 1-800-667-3925.

CROP GROUP 4:
LEAFY VEGETABLES (except brassica) GROUP

Spray Volume for Leafy Vegetables: Apply in a minimum finished spray volume of 200 L/ha by ground.

SITE	PEST	RATE GRAMS ASSAIL 70 WP Insecticide/HA	SPECIFIC DIRECTIONS
LEAFY VEGETABLES Amaranth leafy, Arugula, Cardoon, Celery, Celery (Chinese), Celtuce, Chervil, Chrysanthemum (edible leaved), Chrysanthemum (garland), Corn Salad, Cress (garland), Cress (upland), Dandelion leaves, Dock, Endive, Florence Fennel, Lettuce (head & leaf), Orach, Parsley leaves, Purslane (garden), Purslane (winter), Radicchio, Rhubarb, Spinach, Spinach (vine), Spinach (New Zealand), Swiss Chard	Aphids	56-86	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control. Use the high rate under heavy pest pressure. Do not make more than 5 applications per season. Do not apply more than once every 7 days. Do not apply less than 7 days before harvest. Do not exceed a total of 300 g active ingredient (430 g product) per hectare per season. There are no rotational crop plant restrictions for this product. Ground application only.

**CROP GROUP 5:
BRASSICA (COLE) LEAFY VEGETABLES GROUP**

Spray Volume for Cole Crops: Apply in a minimum finished spray volume of 200 L/ha by ground.

SITE	PEST	RATE GRAMS ASSAIL 70 WP Insecticide/HA	SPECIFIC DIRECTIONS
COLE CROPS Broccoli, Broccoli (Chinese), Broccoli raab, Brussels Sprouts, Cabbage, Cabbage (Chinese, bok choy), Cabbage (Chinese, napa), Cabbage (Chinese mustard, gai choy), Cauliflower, Collards, Kale, Kohlrabi, Mustard Greens, Mustard Spinach, Rape Greens, Cavalo broccolo, Mizuna	Aphids	56-86	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control.

RESTRICTIONS AND PRECAUTIONS: Cole Crops

- Do not make more than 5 applications per season.
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest. Observe a 7-day PHI.
- Do not exceed a total of 300 g active ingredient (430g product) per hectare per season.
- There are no rotational crop plant back restrictions for this product.

Do not enter or allow worker entry into treated areas until the restricted entry interval (REI) of 2 days for scouting activities following application, and 4 days for all other post application activities.

FIELD TOMATO

Spray Volume for Fruiting Vegetables: Apply in a minimum finished spray volume of 200 L/ha by ground.

SITE	PEST	RATE GRAMS ASSAIL 70 WP Insecticide/HA	SPECIFIC DIRECTIONS
Field Tomato	Aphids	56-86	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control.
	Colorado Potato Beetle	40-80	
	Whitefly	120	Begin applications when whitefly adults appear prior to development of nymphs. Do not wait until heavy populations have become established. Make applications on a minimum 7 day interval as long as pest pressure continues. Whiteflies have shown a tendency to develop resistance. For resistance management purposes, alternating applications of different chemical classes reduces the potential for resistance development.
<p>For any of the pests listed above, use the high rate under heavy pest pressure. Do not make more than 2 applications per crop year. Do not apply more than once every 7 days. Do not apply less than 7 days before harvest. Do not exceed a total of 168 g active ingredient (240 g product) per hectare per season.</p>			

SITE	PEST	RATE GRAMS ASSAIL 70 WP Insecticide/HA	SPECIFIC DIRECTIONS
There are no rotational crop plant back restrictions for this product. Ground application only.			

CROP GROUP 11:
POME FRUITS GROUP

Spray Volume for Pome Fruits: Apply in a minimum finished spray volume of 1000 L/ha by ground.

SITE	PEST	RATE GRAMS ASSAIL 70 WP Insecticide/HA	SPECIFIC DIRECTIONS
POME FRUITS Apple, Crabapple, Pear, Pear (oriental), Quince	Aphids	80-120	Begin applications when treatment thresholds have been reached. Adequate coverage is essential for optimum control. Application(s) for leafminer control should initially target peak egg hatch of the first generation and must be made before larvae reach the tissue feeding stage. Use of pheromone traps in conjunction with degree days are good indicators that can be used to determine leafminer and codling moth sprays. Consult your local extension service for recommendations.
	Tentiform leafminer, Leafhopper	80	
	Codling moth	120-240	
	Psylla (pear)	80-160	
<p>For any of the pests listed above, use the high rate under heavy pest pressure. Do not make more than 4 applications per season. Do not apply more than once every 12 days. Do not apply less than 7 days before harvest. Do not exceed a total of 672 g active ingredient (960 g product) per ha per season. Do not apply during bloom. Ground application only.</p>			

Do not enter or allow worker entry into treated areas until the restricted entry interval (REI) of 2 days for scouting activities following application or 6 days following hand thinning.

GRAPES

Spray Volume for Grapes: Apply in a minimum finished spray volume of 200 L/ha by ground.

SITE	PEST	RATE GRAMS ASSAIL 70 WP Insecticide/HA	SPECIFIC DIRECTIONS
GRAPES	Leafhoppers	80	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control.
<p>Do not make more than 2 applications per season. Do not apply more than once every 14 days. Do not apply less than 7 days before harvest. Do not exceed a total of 112 g active ingredient (160 g product) per ha per season. Ground application only.</p>			

Do not enter or allow worker entry into treated areas until the restricted entry interval (REI) of 5 days following application for pruning, training, tying, thinning and leaf pulling.

Do not enter or allow worker entry into treated areas until the restricted entry interval (REI) of 13 days following application for cane turning and girdling.

CROP SUBGROUP 1-C:
POTATO

Spray Volume for Potatoes: Ground application – apply in a minimum finished spray volume of 200 L/ha.

SITE	PEST	RATE GRAMS ASSAIL 70 WP Insecticide/HA	SPECIFIC DIRECTIONS
Potato	Aphids	56-86	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control. Use the higher rates when the majority of the Colorado Potato Beetle population is in the adult stage and for heavy pest pressure.
	Colorado Potato Beetle	40-80	
<p>Do not make more than 2 applications per crop year. Do not apply more than once every 7 days. Do not apply less than 7 days before harvest. Do not exceed a total of 120 g active ingredient (172 g product) per hectare per season. There are no rotational crop plant restrictions for this product.</p>			

TOBACCO

Spray Volume for Tobacco: Apply in a minimum finished spray volume of 200 L/ha by ground.

SITE	PEST	RATE GRAMS ASSAIL 70 WP Insecticide/HA	SPECIFIC DIRECTIONS
Tobacco	Aphids	56-86	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control. Use higher rates under heavy pest pressure.

Do not make more than 2 applications per year.
 Do not apply more than once every 7 days.
 Do not apply less than 1 day before harvest.
 Do not exceed a total of 120 g active ingredient (172 g product) per hectare per season.
 There are no rotational crop plant restrictions for this product.
 Ground application only.

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS: The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than E. I. DuPont Canada Company and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion Program. E. I. DuPont Canada Company itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below. Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold E. I. DuPont Canada Company harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.

FOR SALE FOR USE FOR THE CONTROL OF SWEDE MIDGE ON BRASSICA LEAFY VEGETABLES (CROP GROUP 5):

Apply in a minimum finished spray volume of 200 L/ha by ground.

SITE	PEST	RATE GRAMS ASSAIL 70 WP Insecticide/HA	SPECIFIC DIRECTIONS
<p>COLE CROPS Broccoli, Broccoli (Chinese), Broccoli raab, Brussels Sprouts, Cabbage, Cabbage (Chinese, bok choy), Cabbage (Chinese, napa), Cabbage (Chinese mustard, gai choy), Cauliflower, Collards, Kale, Kohlrabi, Mustard Greens, Mustard Spinach, Rape Greens</p>	Swede Midge	86	<p>Apply sufficiently for thorough coverage. Thorough and uniform spray coverage are important to obtain optimum control. Begin applications when treatment thresholds have been reached, as determined by local monitoring.</p>

Do not make more than 5 applications per season.
 Do not apply more than once every 7 days.
 Do not apply less than 7 days before harvest.
 Do not exceed a total of 300 g active ingredient (430 g product) per hectare per season.
 There are no rotational crop plant back restrictions for this product.
 Ground application only.
 Do not enter or allow worker entry into treated areas until the restricted entry interval (REI) of 2 days for scouting activities following application, and 4 days for all other post-application tasks.

FOR SALE FOR USE FOR THE CONTROL OF ORIENTAL FRUIT MOTH (OFM) ON POME FRUITS (CROP GROUP 11) IN ONTARIO ONLY:

Apply in a minimum finished spray volume of 1000 L/ha by ground.

SITE	PEST	RATE GRAMS ASSAIL 70 WP Insecticide/HA	SPECIFIC DIRECTIONS
<p>POME FRUITS Apple, Crabapple, Pear, Pear (oriental), Quince</p>	Oriental Fruit Moth	120-240	<p>Begin applications when treatment threshold has been reached as indicated by monitoring with pheromone traps in</p>

			<p>conjunction with degree days. Consult your local extension specialist for advice. Adequate spray coverage is essential for optimum control. The emergence of 3rd or 4th generation of OFM are less synchronized than the 1st and 2nd generations. Alternate with other insecticide for 3rd or 4th generations to delay the insecticide resistance development in the pest populations.</p>
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RESTRICTIONS AND PRECAUTIONS: Pome Fruits (ORIENTAL FRUIT MOTH):
Applications timed for other pests may reduce the number of applications for this pest.

For any of the pests listed above, use the high rate under heavy pest pressure.

Do not make more than 4 applications per season.

Do not apply more than once every 12 days.

Do not apply less than 7 days before harvest.

Do not exceed a total of 672 g active ingredient (960 g product) per ha per season.

Do not apply during bloom.

Ground application only.

Do not enter or allow worker entry into treated areas until the restricted entry interval (REI) of 6 days following application for hand thinning.

FOR SALE FOR USE FOR THE REDUCTION OF DAMAGE CAUSED BY PEA LEAFMINER (*Liriomyza huidobrensis* Blanchard) ON LEAFY VEGETABLES (CROP GROUP 4) AND LEAFY BRASSICA GREENS (CROP GROUP 5B):

Apply in a minimum finished spray volume of 200 L/ha by ground.

SITE	PEST	RATE GRAMS ASSAIL 70 WP Insecticide/HA	SPECIFIC DIRECTIONS
LEAFY VEGETABLES (Crop Group 4: leafy amaranth, arugula, cardoon, celery,	Pea Leafminer	86	Begin application when insect populations reach recognized economic threshold levels.

<p>celery (Chinese), celtuce, chervil, chrysanthemum (edible-leaved), chrysanthemum (garland), corn salad, cress (garland), cress (upland), dandelion leaves, dock, endive, Florence fennel, lettuce (head & leaf), orach, parsley leaves, purslane (garden), purslane (winter), radicchio, rhubarb, spinach, spinach (vine), spinach (new zealand), Swiss chard</p> <p>LEAFY BRASSICA GREENS (Crop Group 5B: broccoli raab, Chinese cabbage (bok choy), collards, kale, mizuna, mustard greens, mustard spinach, rape greens)</p>			<p>Consult the provincial extension service, or professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area. Adequate spray coverage is essential for optimum control.</p>
<p>Do not make more than 5 applications per season. Do not apply more than once every 7 days. Do not apply less than 7 days before harvest. Do not exceed a total of 300 g active ingredient (430 g product) per ha per season. Applications timed for other pests may reduce the number of applications for this pest. There are no rotational crop plant restrictions for this product. Ground application only. For Leafy Brassica Greens: Do not enter or allow worker entry into treated areas until the restricted entry interval (REI) of 2 days following application for scouting activities, and 4 days for all other post-application tasks.</p>			
<p>FOR SALE FOR USE FOR THE CONTROL OF APHIDS ON GROUND CHERRY: Apply in a minimum finished spray volume of 200 L/ha by ground.</p>			
<p>SITE</p>	<p>PEST</p>	<p>RATE GRAMS ASSAIL 70 WP Insecticide/HA</p>	<p>SPECIFIC DIRECTIONS</p>
<p>Ground Cherry</p>	<p>Aphids</p>	<p>56-86</p>	<p>Begin application when insect</p>

			populations reach recognized economic threshold levels. Consult the provincial extension service, or professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area. Adequate spray coverage is essential for optimum control.
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Use the high rate under heavy pressure.
 Do not make more than 4 applications per season.
 Do not apply more than once every 7 days.
 Do not apply less than 7 days before harvest.
 Do not exceed a total of 240 g active ingredient (344 g product) per ha per season.
 Applications timed for other pests may reduce the number of applications for this pest.
 There are no rotational crop plant restrictions for this product.
 See Directions For Use for appropriate buffer zones.
 Ground application only.

FOR SALE FOR USE FOR THE CONTROL OF COLORADO POTATO BEETLE AND APHIDS ON FIELD PEPPERS:

Apply in a minimum finished spray volume of 200 L/ha by ground.

SITE	PEST	RATE GRAMS ASSAIL 70 WP Insecticide/HA	SPECIFIC DIRECTIONS
Peppers	Colorado potato beetle	40-80	Apply sufficient spray volume for thorough coverage. Thorough and uniform spray coverage is important to obtain optimum control. Begin applications when treatment thresholds have been reached as determined by local monitoring.
	Aphids	56-86	

Use the high rate under heavy pest pressure.
 Do not make more than 4 applications per season for control of aphids.
 Do not make more than 2 applications per season for control of Colorado potato beetle.
 Do not apply more than once every 7 days.
 Do not apply less than 7 days before harvest.
 There are no rotational crop plant back restrictions for this product.
 Ground application only.

SITE	PEST	RATE (GRAMS) OF PRODUCT/HA
STONE FRUIT (apricot, sweet or tart cherry, nectarine, peach, plum, fresh prune, plumcot)	Oriental fruit moth (Ontario only)	120-240
	Cherry fruit fly - suppression (cherry only) Plum curculio*	240

*Under high plum curculio pest pressure the level of damage reduction may be limited to suppression.

Specific Directions: Adequate spray coverage is essential for optimum control. Apply in a minimum finished spray volume of 1000 L/ha. Use the high rate under heavy pest pressure. Do not apply during bloom. The first application and follow-up applications, if required, should be applied when treatment thresholds have been reached as indicated by monitoring with pheromone traps in conjunction with degree days. Consult you local extension specialist for advice. The emergence of 3rd or 4th generations of OFM is less synchronized than the 1st and 2nd generations. Alternate with other insecticides for 3rd or 4th generations to delay the development of insecticide resistance in pest populations.

RESTRICTIONS AND PRECAUTIONS:

Do not make more than 4 applications per season.
 Do not apply more than once every 12 days.
 Do not apply less than 7 days before harvest. Observe a 7-day PHI.
 Do not exceed a total of 672 g active ingredient (960 g product) per ha per season.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours for all activities except hand thinning. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 6 days for hand thinning.

FOR SALE FOR USE FOR THE CONTROL OF APHIDS, TARNISHED PLANT BUGS AND LEAF HOPPERS ON STRAWBERRIES ONLY

Apply in a minimum finished spray volume of 187 L/ha by ground.

SITE	PEST	RATE (GRAMS) OF PRODUCT/HA
Strawberry	Aphids and Leaf hoppers	56-86
	Tarnished Plant Bugs	84-210
<p>DO NOT APPLY BY AIR.</p> <p>Specific Directions: Begin application when insect populations reach recognized economic threshold levels Consult the provincial extension service or professional consultants or other qualified authorities to determine the appropriate threshold levels for treatment in your area. Adequate spray coverage is essential for optimum control.</p> <p>RESTRICTIONS AND PRECAUTIONS: Use the high rate under heavy pest pressure. Do not make more than 2 applications per season. Do not apply more than once every 7 days. Do not apply less than 1 day before harvest. Observe a 1-day PHI. Do not apply during bloom.</p>		

FOR SALE FOR USE FOR THE CONTROL OF BLUEBERRY MAGGOT ON LOWBUSH AND HIGHBUSH BLUEBERRIES.

Apply in a minimum finished spray volume of 187 L/ha by ground.

SITE	PEST	RATE (GRAMS) OF PRODUCT/HA
Lowbush and Highbush blueberries	Blueberry Maggot	136-160 g/ha (95.2-112 g a.i./ha)
<p>DO NOT APPLY BY AIR.</p> <p>Timing of Application: Begin application when insect populations reach recognized economic threshold levels. Monitor fruiting field by placing sticky traps in the field at the beginning of July. Apply within 7 days of the first blueberry fruit fly capture.</p> <p>RESTRICTIONS AND PRECAUTIONS: Use the high rate where vegetation is dense or when fruit fly populations are high. Do not make more than 4 applications per season. Do not apply more than once every 12 days. Do not apply less than 7 days before harvest. Observe a 7-day PHI. Do not apply during bloom. Wear chemical resistant coveralls, long sleeved shirt, long pants and chemical resistant gloves during mixing, loading, applying and clean-up or repair activities. In addition, a respirator must be worn for mixing and loading activities. DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours in highbush and lowbush blueberry.</p>		

FOR SALE FOR USE FOR THE CONTROL OF APHIDS ON BUSHBERRIES (crop subgroup 13-07B).

Apply in a minimum finished spray volume of 187 L/ha by ground.

SITE	PEST	RATE (GRAMS) OF PRODUCT/HA
Bushberries (crop subgroup 13-07B)	Aphids	56-86 g/ha (39.2-60.2 g a.i./ha)
<p>DO NOT APPLY BY AIR.</p> <p>Timing of Application: Apply when threshold level is reached. Consult provincial guidelines and local extension experts. Repeat applications may be made at least 12 days later if required.</p> <p>RESTRICTIONS AND PRECAUTIONS: Adequate spray coverage is essential for optimum control. Use the high rate under heavy pest pressure.</p>		

Do not make more than 4 applications per season.
 Do not apply less than 7 days before harvest. Observe a 7-day PHI.
 Do not apply during bloom.
DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 2 days for hand pruning and thinning activities within the bushberry crop subgroup 13-07B.
DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours for all other activities in bushberry.

FOR SALE FOR USE FOR THE CONTROL OF BLUEBERRY FLEA BEETLE,
 BLUEBERRY THRIPS, CHERRY FRUITWORM, C RANBERRY FRUITWORM,
 STRAWBERRY ROOTWORM AND SUPPRESSION OF BLUEBERRY SPANWORM ON
 LOWBUSH AND Highbush BLUEBERRIES.

Apply in a minimum finished spray volume of 187 L/ha by ground.

SITE	PESTS	RATE (GRAMS ASSAIL 70WP/ HA)	NOTES
LOW BUSH AND HIGH BUSH BLUEBERRIES	blueberry flea beetle	160	Scout both sprout and fruiting fields and apply when threshold levels have been reached. Consult provincial guidelines and local extension experts.
	blueberry spanworm (suppression)	160	Scout both sprout and fruiting fields during spring and early summer and apply when threshold levels have been reached. Consult provincial guidelines and local extension experts. Spanworms are primarily night feeders and may not be observed during the day.
	blueberry thrips	160	Apply when new shoots are 0.5 – 1.5 cm tall. Repeat applications may be made at least 12 days later if required. Consult provincial guidelines and local extension experts.

	cherry fruitworm, cranberry fruitworm	160	Begin application when egg hatch begins. Consult provincial guidelines and local extension experts.
	strawberry rootworm (adults)	160	Apply when the threshold level of strawberry rootworm adults has been reached. Consult provincial guidelines and local extension experts.

Specific Directions: Begin application when insect populations reach recognized economic threshold levels. Consult the provincial extension service, or professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area. Adequate spray coverage is essential for optimum control.

RESTRICTIONS AND PRECAUTIONS: Lowbush and Highbush Blueberries

Do not make more than 4 applications per season.

Do not apply more than once every 12 days.

Do not apply less than 7 days before harvest. Observe a 7-day PHI.

Do not exceed a total of 448 g active ingredient (640 g product) per ha per season.

Do not apply during bloom.

Wear chemical resistant coveralls, long sleeved shirt, long pants and chemical resistant gloves during mixing, loading, applying and clean-up or repair activities. In addition, a respirator must be worn for mixing and loading activities.

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

FOR SALE FOR USE FOR THE CONTROL OF GRAPE BERRY MOTH, JAPANESE BEETLE, GRAPE PHYLLOXERA IN GRAPES.

Apply in a minimum finished spray volume of 200 L/ha by ground.

SITE	PESTS	RATE (GRAMS ASSAIL 70WP/ HA)	NOTES
Grapes	GRAPE BERRY MOTH, JAPANESE BEETLE, GRAPE PHYLLOXERA aerial form only	80	Do not make a foliar application of Assail 70 WP Insecticide following a soil application of a Group 4 Insecticide

RESTRICTIONS AND PRECAUTIONS: Grapes

Do not make more than 2 applications per season.

Do not apply more than once every 14 days.

Do not apply less than 3 days before harvest. Observe a 3-day PHI.

Do not exceed a total of 112 g active ingredient (160 g product) per ha per season.

Ground application, foliar spray only

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 5 days for hand harvesting, training, thinning, hand pruning, tying, or leaf pulling activities.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 13 days of girdling or cane turning activities.

DIRECTIONS FOR USE:

FOR SALE FOR USE FOR THE CONTROL OF APHIDS IN SWEET CORN

Apply in a minimum finished spray volume of 200 L/ha by ground.

Site	PEST	RATE (GRAMS) OF ASSAIL 70 WP INSECTICIDE/HA	SPECIFIC DIRECTIONS
Sweet Corn	Aphids	56 – 86	Begin applications when treatment thresholds have been reached as determined by local monitoring. Consult professional consultants or other qualified authorities to determine appropriate threshold levels of treatment in your area. Adequate spray coverage is essential to obtain optimum control.

RESTRICTIONS AND PRECAUTIONS:

- Use higher dosage rates for heavy infestations or dense foliage.
- Do not make more than 2 applications per season.
- Do not apply more than once every 21 days.
- Do not apply less than 10 days before harvest (PHI = 10 days).
- Do not exceed a total of 120 g active ingredient (172 g product) per hectare per season.
- Applications timed for other pests may reduce the number of applications for this pest.
- There are no rotational crop plant restrictions for this product.
- Only mechanical detasseling is allowed. Do not detassel treated corn by hand.
- Do not enter or allow worker entry into treated areas during the restricted entry interval of 10 days following application, for hand harvesting activities.

FOR SALE FOR USE FOR THE CONTROL OF APPLE MAGGOT, EUROPEAN APPLE SAWFLY, GREEN FRUITWORM, MULLEIN BUG, AND PLUM CURCULIO ON CROP GROUP 11: Pome Fruit – Apple, Crabapple, Loquat, Mayhaw, Pear, Pear (oriental) and Quince

Apply in a minimum finished spray volume of 1000 L/ha by ground.

SITE	PESTS	RATE (GRAMS ASSAIL 70WP/ HA)	NOTES
Pome Fruit: Apple, Crabapple, Loquat, Mayhaw, Pear, Pear (oriental) and Quince	Green fruitworm	120	Begin applications when insect populations reach recognized economic thresholds levels. Consult provincial guidelines, local extension experts, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area. Adequate spray coverage is essential for optimum control.
	Mullein bug	80 - 160	
	Apple maggot European apple sawfly Plum curculio	120 - 240	

RESTRICTIONS AND PRECAUTIONS: Pome Fruit

- Use the high rate under heavy pest pressure.
- Do not make more than 4 applications per season.
- Do not apply more than once every 12 days.
- Do not apply less than 7 days before harvest. Observe a 7-day PHI.
- Do not exceed a total of 672 g active ingredient (960 g product) per ha per season.
- Do not apply during bloom.

FOR SALE FOR USE FOR THE SUPPRESSION OF TARNISHED PLANT BUG AND CONTROL OF ALFALFA PLANT BUG IN SEED ALFALFA:

Apply in a minimum finished spray volume of 100 L/ha by ground.

SITE	PESTS	RATE (GRAMS ASSAIL 70WP/ HA)	NOTES
Seed alfalfa	Tarnished Plant Bug Alfalfa Plant Bug	87 - 170	Apply prior to bloom up to the time when 50% of seed pods are ripe. Begin when adults and/or 4-5 th instar nymphs have reached economic threshold levels for your area. Use the higher rate for heavier infestations. Application may be repeated if necessary to a maximum of 3 applications per season. Consult the provincial extension service, or professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area. Thorough coverage is essential for optimum control.

RESTRICTIONS AND PRECAUTIONS: Seed Alfalfa

- Do not make more than 3 applications per season.
- Do not apply more than once every 7 days.
- Do not apply less than 1 day before harvest. Observe a 1-day PHI.
- Do not exceed a total of 357 g active ingredient (510 g product) per ha per season.
- Do not cut treated fields for hay/forage.
- Do not graze treated fields

INTEGRATED PEST MANAGEMENT (IPM) USE OF THIS PRODUCT

ASSAIL 70 WP Insecticide can be effectively utilized in IPM programs. ASSAIL 70 WP Insecticide has been shown to leave substantial populations of many beneficial insects and spiders after use. The lower rates allow for maximum beneficial survival and faster rebound of beneficial populations.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, ASSAIL 70 WP is a Group 4 insecticide. Any insect population may contain individuals naturally resistant to this product and other Group 4 insecticides. The resistant biotypes may dominate the insect population if these insecticides are used repeatedly in the same field. 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 ASSAIL 70 WP Insecticide with different groups that control the same pests.
- 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 and record keeping and considers cultural, biological, and other chemical control practices;
- Monitor treated pest populations for resistance development.
- Contact the local extension specialist or certified crop advisors for any additional pesticide resistance-management and IPM recommendations for the specific site and pest problems in the area.
- For further information or to report suspected resistance, contact DuPont Canada at 800-667-3925.

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