

23-DEC-2009
2009-3184

DuPont

| | | |
|-------|----------|-------------|
| GROUP | 4 | INSECTICIDE |
|-------|----------|-------------|

ASSAIL 70 WP Insecticide

Contains Acetamiprid

AGRICULTURAL

GUARANTEE: Acetamiprid.....70% by weight



WARNING

POISON

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 OHTEMACHI
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 – 10 kg

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Harmful if 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. Wear long sleeved shirt, long pants and chemical resistant gloves during mixing, loading, applying, and clean-up and repair activities. Workers should not enter treated areas for 12 hours following application. 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.

Do not apply ASSAIL 70 WP Insecticide directly to water, or to areas where surface water is present. Do not contaminate water when disposing of equipment wash water or rinsate. Do not contaminate water used for irrigation or domestic purposes.

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:

Acetamiprid is toxic to honey bees exposed to direct treatment. Do not apply when bees are present in the area to be treated.

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

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. Overexposure to materials other than this product may have occurred.

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:

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.
3. Dispose of the container in accordance with provincial requirements.
4. 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 the 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.

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

NET CONTENTS: 340 g, 480 g, 1.2 or 5.0 kg

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Harmful if 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. Wear long sleeved shirt, long pants and chemical resistant gloves during mixing, loading, applying, and clean-up and repair activities. Workers should not enter treated areas for 12 hours following application. 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.

Do not apply ASSAIL 70 WP Insecticide directly to water, or to areas where surface water is present. Do not contaminate water when disposing of equipment wash water or rinsate. Do not contaminate water used for irrigation or domestic purposes.

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:

Acetamiprid is toxic to honey bees exposed to direct treatment. Do not apply when bees are present in the area to be treated.

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

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.

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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. Overexposure to materials other than this product may have occurred.

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:

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.
3. Dispose of the container in accordance with provincial requirements.
4. 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 the 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.

DIRECTIONS FOR USE:

METHOD OF APPLICATION: Applications can be made by ground equipment in all provinces. Aerial application is only allowed on potatoes in the following provinces: Alberta, Manitoba, and Saskatchewan.

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.

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. **DO NOT** allow nozzle spacing to exceed 65% of boom length.

Aerial Application Instructions

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 nontarget 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.

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* 47 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 of *your* aircraft. (For example, the effective swath width may be less than one-half of the overall swath).
3. Nozzles should be positioned to compensate for prop-wash and wing-tip vortex effects. Nozzles should not be placed within 1 m of wing tips.
4. Orient nozzles (measured from direction of flight) to achieve desired minimum droplet density and maximum coverage.
5. Efficient track-marking is essential.

Volume: Apply the recommended rate in a minimum spray volume of 47 litres per hectare.

Buffer zones (Ground and Aerial Application):

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: | |
|---|---|---------------------|
| | Freshwater Habitat | Terrestrial habitat |
| Field sprayer* | 20 | 2 |
| Airblast | 30 | 10 |
| Aerial (fixed- and rotary-wing aircraft) for use on potatoes only | 0 | 20 |

*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. |
| | 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 |

| SITE | PEST | RATE GRAMS ASSAIL 70 WP Insecticide/HA | SPECIFIC DIRECTIONS |
|------|------|--|--|
| | | | different chemical classes reduces the potential for resistance development. |

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. |

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.

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

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 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) | 67-240 | |
| <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> | | | |

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> | | | |

CROP SUBGROUP 1-C:
POTATO

Spray Volume for Potatoes: Ground application – apply in a minimum finished spray volume of 200 L/ha. Aerial application (for potatoes grown in Alberta, Saskatchewan and Manitoba) – apply in a minimum finished spray volume of 47 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 |
|--|---------------------|--|--|
| 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 | Swede Midge | 86 | Apply sufficiently for thorough coverage. Thorough and uniform spray coverage are important to obtain optimum control. Ground application only. Begin applications when treatment thresholds have been reached, as determined by local monitoring. |
| 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. | | | |
| <p>FOR SALE FOR USE FOR THE CONTROL OF ORIENTAL FRUIT MOTH (OFM) ON POME FRUITS IN ONTARIO ONLY:</p> | | | |
| <p>Apply in a minimum finished spray volume of 1000 L/ha by ground.</p> | | | |
| SITE | PEST | RATE GRAMS ASSAIL 70 WP Insecticide/HA | SPECIFIC DIRECTIONS |
| POME FRUITS Apple, Crabapple, Pear, Pear (oriental), Quince | Oriental Fruit Moth | 120-240 | Begin applications when treatment threshold has been reached as indicated by monitoring with pheromone traps in conjunction with degree days. Consult your local extension |

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|--|--|--|--|
| | | | <p>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.

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, celery (Chinese), celtuce, chervil, chrysanthemum (edible-leaved), Fchrysanthemum | Pea Leafminer | 86 | Begin application when insect populations reach recognized economic threshold levels. Consult the provincial extension service, or professional consultants or other qualified authorities |

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|--|--|--|--|
| <p>(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>to determine appropriate threshold levels for treatment in your area. Adequate spray coverage is essential for optimum control.</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 SALE FOR USE FOR THE CONTROL OF APHIDS ON GROUND CHERRY:

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

| SITE | PEST | RATE GRAMS ASSAIL 70 WP Insecticide/HA | SPECIFIC DIRECTIONS |
|---------------|--------|--|--|
| Ground Cherry | Aphids | 56-86 | 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. |
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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. Ground application only. 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.

| | | |
|------|------|-----------------|
| 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 |
| <p>*Under high plum curculio pest pressure the level of damage reduction may be limited to suppression.</p> <p>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.</p> <p>RESTRICTIONS AND PRECAUTIONS:</p> <p>Do not make more than 4 applications per season.</p> <p>Do not apply more than once every 12 days.</p> <p>Do not apply less than 7 days before harvest. Observe a 7-day PHI.</p> <p>Do not exceed a total of 672 g active ingredient (960 g product) per ha per season.</p> <p>Do not enter or allow work entry into treated areas during the restricted entry interval (REI) of 12 hours for all activities except hand thinning. Do not enter or allow work entry into treated areas during the restricted entry interval (REI) of 6 days for hand thinning.</p> | | |

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> | | |

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