

GROUP	17	INSECTICIDE
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CITATION[®] 75WP Insecticide

INSECTICIDE

COMMERCIAL

Wettable powder for control of leafminer, fungus gnats and shoreflies in greenhouse ornamentals, sciarid flies in mushrooms, leafminer on celery and pea leafminer on members of Crop Group 4 (leafy vegetables except Brassica vegetables) and Crop Group 5B (leafy Brassica greens).

GUARANTEE:

Cyromazine75%

**READ THE LABEL AND BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN**

CAUTION



POISON

**WARNING:
EYE AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER**

The CITATION 75WP Insecticide inside the foil pouch is packaged in 6 "Water Soluble Bags". Each water-soluble bag contains 75 grams of CITATION 75WP Insecticide.

Do not touch water-soluble bags with wet gloves, as the bags will dissolve. Do not open water-soluble bags.

Re-seal foil pouch if any water soluble bags are left inside.

DO NOT SELL THE WATER SOLUBLE BAG INDIVIDUALLY

REGISTRATION NO.: **24465**
PEST CONTROL PRODUCTS ACT

Syngenta Crop Protection Canada, Inc.
140 Research Lane, Research Park
Guelph, ON N1G 4Z3

BOOKLET

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.

FIRST AID

IN CASE OF POISONING, contact a physician or a poison control centre **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed, call a physician or Poison Control Centre **IMMEDIATELY**. Give a large quantity of medicinal charcoal in a large quantity of water. Note: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Do not induce vomiting. Keep patient prone and quiet. Transport the patient immediately to the nearest physician.

If spilled on skin, remove all contaminated clothing and thoroughly wash skin with soap and water. If irritation occurs, obtain medical attention.

If in eyes, flush with copious amounts of clean water. Obtain medical attention.

If inhaled, move to fresh air.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Avoid contact with eyes or prolonged contact with skin or clothing. Avoid inhalation of dust. Causes moderate eye irritation. When mixing, loading or applying the product wear water-tolerant coveralls (e.g. TYVEK) over long-sleeve shirt and long pants, boots and rubber gloves. Greenhouse growers should wear gloves when handling treated crops.

Do not eat, drink or smoke while mixing or during application. Change and wash clothing after use. Wash hands and face before eating, drinking, smoking or using the toilet. Store and wash all protective clothing separately from household laundry. Wash in detergent and hot water before reuse.

Avoid contamination of food and feed, domestic or irrigation water supplies, lakes, streams and ponds. Use only on labelled crops. Do not reuse foil pouch; destroy when empty.

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty.

To reduce run-off from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to run-off include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured, or low in organic matter, such as clay).

Avoid application of this product when heavy rain is forecast.

Contamination of aquatic areas as a result of run-off may be reduced by including a vegetative strip (buffer zone) between the treated area and the edge of the water body.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment and 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., contact 1-866-375-4648 or refer to www.croplife.ca.

STORE IN A DRY PLACE.

Re-Entry Period

Do not re-enter treated areas within 12 hours following application.

DECONTAMINATION AND DISPOSAL

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.

CONTAINER DISPOSAL:

1. After the foil pouch is empty, make it unsuitable for further use by punching holes in it.
2. Dispose of the foil pouch in accordance with provincial requirements.
3. For information on the disposal of unused, unwanted product, and the cleanup of spills, contact the provincial regulatory agency or the manufacturer.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING
CALL 1-800-327-8633 (FASTMED)***

GENERAL INFORMATION

CITATION 75WP Insecticide is an insect growth regulator type of insecticide to control leafminers, fungus gnats and shoreflies in greenhouse ornamentals, sciarid flies in mushrooms, leafminer on celery and pea leafminer on members of Crop Group 4 (leafy vegetables except Brassica vegetables) and Crop Group 5B (leafy Brassica greens). When applied according to the directions given below, CITATION 75WP Insecticide will provide control of leafminers, fungus gnats, shoreflies and sciarid flies by inhibiting the larval stages of this pest. CITATION 75WP Insecticide may adversely affect some species of predatory mites and leafminer parasitoids. Use with caution in a pest management program utilizing these beneficial arthropods.

MIXING INSTRUCTIONS

CITATION 75WP Insecticide is a wettable powder formulation to be mixed with water and applied as a spray. Be sure sprayer is clean; if it is contaminated with any material, crop injury or sprayer clogging may result.

Mixing Steps:

1. Fill the tank 1/4 to 1/2 full with clean water and start agitation.
2. Add the correct amount of product.
3. Complete filling tank with water, maintaining sufficient agitation at all times.
4. Do not leave spray mixtures in the tank without adequate agitation. Always maintain agitation to avoid separation and build-up of residues.
5. Immediately after use, clean sprayer thoroughly by flushing system with water containing a detergent and rinse with clean water.
6. If a residue starts to build up in tank, drain and clean with strong detergent and ammonia solution. Then rinse thoroughly with clean water.

USE LIMITATIONS

CITATION 75WP Insecticide will control the larval stages of the leafminer but does not prevent the initial damage caused by the adult stage. CITATION 75WP Insecticide is only effective on leafminer of the *Liriomyza* genus.

DIRECTIONS FOR USE

Cyromazine has the potential to persist in soil and to carry-over into the subsequent year. Use of CITATION 75WP on the same field in consecutive years should be avoided.

This product demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of CITATION 75WP in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination. Do not apply within 15 metres of well-heads or aquatic systems including marshes, ponds, ditches, streams, rivers and lakes. Do not mix, load or clean spray equipment within 30 metres of well-heads or aquatic systems.

The following plant-back intervals must be observed when planting rotational crops after an application of CITATION 75WP insecticide to a crop:

All labelled crops, and tomatoes, peppers, cucumbers, melons: **1 day**
Hay, wheat, barely, oats: **300 days**

NOTE TO BUYER/USER

All uses for this product were developed by persons other than Syngenta Crop Protection Canada, Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Syngenta Crop Protection Canada, Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crops listed on this label. Accordingly, the Buyer and User assume all liability arising, and agree to hold Syngenta Crop Protection Canada, Inc. harmless, from any claims based on efficacy and/or phytotoxicity in connection with the uses described on this label.

DIRECTIONS FOR USE – DO NOT APPLY BY AIR

Greenhouse Ornamentals - Spray Schedule														
INSECT	RATE/HA	REMARKS												
Leafminer	188 grams of product/ha; (1 water soluble bag per 400 L of water per 0.4 ha)	Apply as a foliar spray to runoff: Use 75 grams of product (1 water soluble bag) per 400 L of water per 0.4 ha; If applied with low volume application equipment, ensure the rate of 188 grams of product per ha is followed (1 water soluble bag per 0.4 ha).												
Fungus Gnats	133 grams of product/ha; (1 water soluble bag per 570 L of water per 0.57 ha)	<p>1. Apply as a spray to all surfaces where fungus gnats may breed. This includes potting media surfaces, bench tops, undersides of benches, and areas under benches which may be contaminated with potting media or algae. Use 75 grams of product (1 water soluble bag) per 570 L of water per 0.57 ha;</p> <p>2. Apply as a drench to potted plants using 133 grams of product per 1,000 L of water (1 water soluble bag per 570 L of water) as follows:</p> <table border="1"> <thead> <tr> <th>Pot Size (cm)</th> <th>Volume of Drench (mL)</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>90</td> </tr> <tr> <td>13</td> <td>120</td> </tr> <tr> <td>15</td> <td>180</td> </tr> <tr> <td>20</td> <td>240</td> </tr> <tr> <td>25</td> <td>300</td> </tr> </tbody> </table>	Pot Size (cm)	Volume of Drench (mL)	10	90	13	120	15	180	20	240	25	300
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10	90													
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Shoreflies	133 grams of product/ha; (1 water soluble bag per 570 L of water per 0.57 ha)	<p>1. Apply as a spray to all surfaces where shoreflies may breed. This includes areas under benches that may be contaminated with potting media or algae, undersides of benches, bench tops and potting media surfaces. Use 75 grams of product (1 water soluble bag) per 570 L of water per 0.57 ha;</p> <p>2. Apply as a drench to potted plants using 133 grams of product per 1,000 L of water (1 water soluble bag per 570 L of water).</p>												

CITATION 75WP Insecticide has been evaluated for safety to many greenhouse ornamental plants as a foliar spray and a soil drench. No phytotoxicity has been observed at the rates recommended on this label on chrysanthemum, gerbera, ageratum, dahlia, marigold, salvia, verbena, zinnia, baby's breath, petunia, Easter lily, or poinsettia. While many plant species and cultivars have been evaluated, each species and/or cultivar should be evaluated for phytotoxicity prior to making applications to the entire crop. To evaluate for possible phytotoxic effects for ornamental crops not listed above, the grower should test CITATION 75WP Insecticide, for at least two weeks, on a small group of plants under the same conditions in which they will be grown.

Mushrooms - Spray Schedule							
INSECT		RATE		REMARKS			
Sciarid Fly		5 parts per million of cyromazine in compost		Using no more than 1 application per cycle, apply CITATION 75WP Insecticide when preparing the mushroom substrate using a coarse drenching spray with low pressure to minimize the formation of mists. Apply in sufficient water for uniform distribution to the compost according to the Table below. These rates result in a concentration of 5 parts per million of active ingredient. Thoroughly incorporate during substrate preparation or spawning operation.			
Compost Fill: Wet Weight @ 66.6% Water		Compost Fill: Dry Weight		Grams of CITATION 75 WP Insecticide		Area Treated By One 75 Gram Water Soluble Bag of CITATION 75WP Insecticide	
Kg/m ²	lb/ft ²	Kg/m ²	lb/ft ²	100 m ²	1000 ft ²	m ²	ft ²
58.59	12	19.53	4	41.07	38.15	182.61	1965.70
68.36	14	22.79	4.67	47.56	44.18	157.71	1697.65
73.24	15	24.41	5	51.88	48.19	144.57	1556.18
83.01	17	27.67	5.67	56.20	52.21	133.45	1436.48
87.89	18	29.30	6	60.52	56.23	123.92	1333.87
97.65	20	32.55	6.67	67.01	62.25	111.92	1204.79
102.54	21	34.18	7	71.33	66.27	105.14	1131.77
112.30	23	37.43	7.67	75.66	70.28	99.13	1067.10
117.18	24	39.06	8	82.14	76.31	91.31	982.85
126.95	26	42.32	8.67	86.46	80.32	86.74	933.71
131.83	27	43.94	9	92.95	86.35	80.69	868.57
<p>Example: When applying CITATION 75WP Insecticide to a wet compost bed weighing 112.3 kg/m² at 66.6% moisture, use 75 grams (one water soluble bag) per 99.13 m² of compost (one water soluble bag per 1,067 ft.²). To adjust for varying moisture rates, first convert to a dry matter basis using the following formula: Wet weight of compost (kg/m²) x (1 - [x% compost moisture/100]). Locate the closest "Dry Weight (Kg/m²)" from the table and use the appropriate rate of CITATION 75WP Insecticide.</p>							
INSECT		RATE		REMARKS			
Sciarid Fly		5 parts per million of cyromazine in wet casing or 18.7 grams of CITATION 75WP Insecticide in sufficient casing material to cover 100 m ² of production surface that is approximately 5-8 cm in depth.		Apply as a single low volume drench spray to the casing material. Do not apply within 14 days of harvest.			

CELERY: For control of Leafminer

For control of leafminers, apply 188 g of CITATION 75WP Insecticide (2.5 soluble bags) per hectare as a foliar spray when leafminer larvae first appear. Five soluble bags will treat 2 ha. Apply by ground in a minimum of 300L of water per hectare, using sufficient carrier to achieve adequate coverage. Reapply based on monitoring. Allow at least 7 days between applications.

USE RESTRICTIONS – CELERY

- Do not apply more than five applications per growing season.
- Do not apply within 7 days of harvest.
- Do not apply in less than 300 L of water per hectare.
- Do not apply this product through any type of irrigation equipment.
- Do not graze treated crop.
- Do not apply by air.
- Do not re-enter treated areas within 12 hours following application

**CROP GROUP 4 (LEAFY VEGETABLES EXCEPT BRASSICA VEGETABLES)
CROP GROUP 5B (LEAFY BRASSICA GREENS)**

CROP	INSECT	RATE/HA	REMARKS
<p>Crop Group 4 (leafy vegetables except Brassica vegetables) including leafy amaranth, Chinese spinach, tampala, arugula (roquette), cardoon, celery, Chinese celery, celtuce, chevril, edible-leaved chrysanthemum, corn salad, garden cress, upland cress (yellow rocket, winter cress), dandelion, dock (sorrel), endive (escarole), Florence fennel (finocchio), head and leaf lettuce, orach, parsley, garden purslane, winter purslane, radicchio (red chicory), rhubarb, spinach, New Zealand spinach, vine spinach (Malabar spinach, Indian spinach) and Swiss chard.</p>	<p>Pea leafminer (<i>Liriomyza huidobrensis</i>)</p>	<p>Apply 188 g product (2.5 soluble bags) per hectare in a minimum of 200 L of water per hectare, using sufficient water to achieve adequate coverage. Five soluble bags will treat 2 hectares.</p>	<p>Apply when pea leafminer larvae first appear. Reapply based on monitoring.</p> <p>Do not make more than 5 applications per growing season.</p> <p>Allow 7 days between applications.</p> <p>Do not apply within 7 days of harvest.</p>
<p>Crop Group 5B (leafy Brassica greens) including broccoli raab (rapini), Chinese cabbage (bok choy), collards, kale, mizuna, mustard greens, mustard spinach, rape greens.</p>			

Resistance-Management Recommendations

For resistance management, please note that CITATION 75WP Insecticide contains a Group 17 insecticide. Any insect population may contain individuals naturally resistant to CITATION 75WP Insecticide and other Group 17 insecticides. The resistant individuals may dominate the insect population if this group of insecticide is used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

Where possible, rotate the use of CITATION 75WP Insecticide or other Group 17 insecticides with different insecticide 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 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 and to report suspected resistance, contact Syngenta Crop Protection Canada, Inc. company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

Refer to and retain booklet and label for DIRECTIONS FOR USE, MIXING INSTRUCTIONS, USE LIMITATIONS and PRODUCT DECONTAMINATION & DISPOSAL

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