GROUP 17 INSECTICIDE

CITATION® 75WP Insecticide

INSECTICIDE

COMMERCIAL

Wettable powder for control of leafminer, fungus gnats and shoreflies in greenhouse ornamentals, leafminers on outdoor ornamentals, fungus gnats in greenhouse lettuce, 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).

ACTIVE INGREDIENT:	
Cyromazine	75%

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

WARNING EYE AND SKIN IRRITANT

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 Canada Inc. 140 Research Lane, Research Park Guelph, ON N1G 4Z3 Telephone: 1-877-964-3682 Page 2 of 3

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.

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

If on skin or clothing, take off contaminated clothing. Rinse skin **IMMEDIATELY** with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

If 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 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.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Causes skin and eye irritation. Do not get on skin or in eyes. Avoid inhalation of dust. When mixing, loading or applying the product wear water-tolerant coveralls (e.g. TYVEK) over long-sleeve shirt and long pants, boots and chemical-resistant 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.

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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.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings

If this pest control product is to be used on a commodity that may be exported and if you require information regarding Maximum Residue Limits for an importing country, please consult Syngenta Canada Inc. at 1-877-964-3682.

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)

GROUP 17 INSECTICIDE

CITATION® 75WP Insecticide

INSECTICIDE

COMMERCIAL

Wettable powder for control of leafminer, fungus gnats and shoreflies in greenhouse ornamentals, leafminers on outdoor ornamentals, fungus gnats in greenhouse lettuce, 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:	
Cyromazine	75%

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WARNING EYE AND SKIN IRRITANT

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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 Canada Inc. 140 Research Lane, Research Park Guelph, ON N1G 4Z3 Telephone: 1-877-964-3682

Pamphlet

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TOXICOLOGICAL INFORMATION

Treat symptomatically.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Causes skin and eye irritation. Do not get on skin or in eyes. Avoid inhalation of dust. When mixing, loading or applying the product wear water-tolerant coveralls (e.g. TYVEK) over long-sleeve shirt and long pants, boots and chemical-resistant 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.

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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.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings

If this pest control product is to be used on a commodity that may be exported and if you require information on acceptable Maximum Residue Levels, please consult Syngenta Canada Inc. at 1-877-964-3682.

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), Crop Group 5B (leafy Brassica greens) and leafminers on outdoor ornamentals. 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

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these pests. 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 ¼ to ½ 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, barley, oats: **300 days**

READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS.

NOTE TO USER

Directions for use for this product for the uses described on this label were developed by persons other than Syngenta Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Syngenta 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 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	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)	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. 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: Pot Size (cm) Volume of Drench (mL) 10 90 13 120 15 180 20 240 25 300		
Shoreflies	133 grams of product/ha; (1 water soluble bag per 570 L of water per 0.57 ha)	 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. 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). 		

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. Do NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

Outdoor Or	Outdoor Ornamentals - Spray Schedule			
INSECT	RATE/HA	REMARKS		
Leafminer	188 grams of	Apply as a foliar spray to runoff.		
(Liriomyza	product/ha (1 water	1000 L of water per ha (400 L water per 0.4 ha) is recommended, or		
spp.)	soluable bag per 400	sufficient water to ensure thorough coverage using conventional		
	L of water per 0.4 ha)	ground application equipment, including foliar airblast or horizontal		
		boom. Apply when leafminer larvae first appear. Reapply based on		
		monitoring. Allow 7 days between applications. Do not make more than		
		5 applications per growing season.		

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, 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								
INSEC	T	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.			
	ompost Fill: Wet Compost Fill: Dry Weight		Grams of CITATION Area 75WP Insecticide Wate			rea Treated By One 75 Gram /ater Soluble Bag of CITATION 5WP Insecticide		
kg/m²	lb/ft	t²	kg/m²	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

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/m^2) x (1 - [x% compost moisture/100]). Locate the closest "Dry Weight (Kg/m^2) " from the table and use the appropriate rate of CITATION 75WP Insecticide.

INSECT	RATE	REMARKS
Sciarid Fly	5 parts per million of cyromazine in wet casing	Apply as a single low volume drench spray to the casing material. Do not apply within 14 days of harvest.
	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	

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 300 L 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
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 (finochio), 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	Pea leafminer (<i>Liriomyza</i> huidobrensis)	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.	Apply when pea leafminer larvae first appear. Reapply based on monitoring. Do not make more than 5 applications per growing season. Allow 7 days between applications. Do not apply within 7 days of harvest.
Crop Group 5B (leafy Brassica greens) including broccoli raab (rapini), Chinese cabbage (bok choy), collards, kale, mizuna, mustard greens, mustard spinach, rape greens			

GREENHOUSE LETTUCE			
PEST	RATE	REMARKS	
Fungus Gnats (<i>Bradysia</i> sp.)	75 g of product (1 water soluble bag)/570 L of water. Apply sufficient amount of mixture for thorough coverage. Do not exceed 1010 L spray solution/ha.	Allow 7 days between applications. Apply when pest monitoring indicates the need. Apply to the foliage and moist surfaces where the insects breed and feed.	

USE RESTRICTIONS – GREENHOUSE LETTUCE

- Do not apply more than 4 applications per growing season.
- Do not apply within 14 days of harvest.
- Do not apply this product through any type of irrigation equipment.
- Do not re-enter treated areas within 12 hours following application.
- Do NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

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 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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