

2024-1805  
2024-06-04

GROUP	<b>17</b>	INSECTICIDE
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## CITATION® 75WP Insecticide

INSECTICIDE

COMMERCIAL

WETTABLE POWDER

For control of leafminer, fungus gnats and shoreflies in greenhouse ornamentals (not grown for cut flowers), leafminers on outdoor ornamentals (not grown for cut flowers), fungus gnats in greenhouse lettuce, and sciarid flies in mushrooms.

**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

NET CONTENTS: **450g**

Gowan Company, L.L.C.  
P.O. Box 5569  
Yuma, AZ 85366-5569  
1-800-960-4318

Label

### 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.

For medical emergencies call 1-888-478-0798

### 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.

Use only on labelled crops. Do not reuse foil pouch; destroy when empty.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

DO NOT use on ornamentals being grown for cut flowers.

**DO NOT APPLY** directly to mushrooms. Make applications when there are no mushrooms above the substrate surface.

**RESTRICTED ENTRY INTERVAL (REI AND/OR PHI): DO NOT** enter or allow worker entry into treated areas during the intervals specified in the following table:

Crop	Postapplication Activity	REI and/or PHI
Outdoor ornamentals (not grown for cut flowers)	Handset/hand line irrigation related activities involving foliar contact	18 days
	All other activities	12 hours
Greenhouse ornamentals (not grown for cut flowers)	All activities	12 hours
Greenhouse Lettuce	Harvesting	14 days
	All other activities	12 hours
Mushrooms	Harvesting	14 days

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If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Gowan Company at 1-800-960-4318.

### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Greenhouse growers should wear gloves when handling treated crops.

In addition, wear chemical-resistant head gear during open cab airblast application. Chemical-resistant headgear includes sou'wester hat, chemical resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection. Gloves are not required in a closed cab.

For application using handheld airblast/mistblower equipment, wear chemical-resistant coveralls with a chemical-resistant hood over long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides.

When treating mushroom house compost and casing, wear long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair

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.

### **ENVIRONMENTAL PRECAUTIONS**

TOXIC to aquatic organisms, non-target terrestrial plants and small wild mammals. Observe buffer zones specified under DIRECTIONS FOR USE.

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.

Toxic to bees. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to the evening when most bees are not foraging. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance "Protecting Pollinators during Pesticide Spraying – Best Management Practices" on the Canada.ca website ([www.canada.ca/pollinators](http://www.canada.ca/pollinators)).

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

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil or 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 between the treated area and the edge of the water body.

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The residues of cyromazine (melamine) are persistent and may carryover. It is recommended that any products containing cyromazine not be used in areas treated with this product during the previous season.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.”

DO NOT allow releases, effluent or runoff from mushroom houses containing this product to enter lakes, streams, ponds or other waters.

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.

### **STORAGE**

Store this product away from food or feed. Store in a cool, dry area above freezing. Do not remove the water-soluble pouches from container except for immediate use.

### **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.

1. When all the water-soluble bags are used, make the empty outer package unsuitable for further use. After the foil pouch is empty, make it unsuitable for further use by punching holes in it.
2. Dispose of the outer package in accordance with provincial requirements.

## CITATION® 75WP Insecticide

INSECTICIDE

COMMERCIAL

WETTABALE POWDER

For control of leafminer, fungus gnats and shoreflies in greenhouse ornamentals (not grown for cut flowers), leafminers on outdoor ornamentals (not grown for cut flowers), fungus gnats in greenhouse lettuce, and sciarid flies in mushrooms.

**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

Gowan Company, L.L.C.  
P.O. Box 5569  
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### FIRST AID

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**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.

For medical emergencies call 1-888-478-0798

### 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.

Use only on labelled crops. Do not reuse foil pouch; destroy when empty.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

DO NOT use on ornamentals being grown for cut flowers.

**DO NOT APPLY** directly to mushrooms. Make applications when there are no mushrooms above the substrate surface.

**RESTRICTED ENTRY INTERVAL (REI): DO NOT** enter or allow worker entry into treated areas during the intervals specified in the following table:

Crop	Postapplication Activity	REI and/or PHI
Outdoor ornamentals (not grown for cut flowers)	Handset/hand line irrigation related activities involving foliar contact	18 days
	All other activities	12 hours
Greenhouse ornamentals (not grown for cut flowers)	All activities	12 hours

Greenhouse Lettuce	Harvesting	14 days
	All other activities	12 hours
Mushrooms	Harvesting	14 days

If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Gowan Company at 1-800-960-4318.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Greenhouse growers should wear gloves when handling treated crops.

In addition, wear chemical-resistant head gear during open cab airblast application. Chemical-resistant headgear includes sou'wester hat, chemical resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection. Gloves are not required in a closed cab.

For application using handheld airblast/mistblower equipment, wear chemical-resistant coveralls with a chemical-resistant hood over long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NOSH-approved canister approved for pesticides.

When treating mushroom house compost and casing, wear long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair.

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.

**ENVIRONMENTAL PRECAUTIONS**

TOXIC to aquatic organisms, non-target terrestrial plants and small wild mammals. Observe buffer zones specified under DIRECTIONS FOR USE.

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.

Toxic to bees. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to the evening when most bees are not foraging. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance "Protecting Pollinators during Pesticide Spraying – Best Management Practices" on the Canada.ca website ([www.canada.ca/pollinators](http://www.canada.ca/pollinators)).

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 between the treated area and the edge of the water body.

The residues of cyromazine (melamine) are persistent and may carryover. It is recommended that any products containing cyromazine not be used in areas treated with this product during the previous season.

DO NOT allow releases, effluent or runoff from mushroom houses containing this product to enter lakes, streams, ponds or other waters.

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.

### **STORAGE**

Store this product away from food or feed. Store in a cool, dry area above freezing. Do not remove the water-soluble pouches from container except for immediate use.

### **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.

1. When all the water-soluble bags are used, make the empty outer package unsuitable for further use. After the foil pouch is empty, make it unsuitable for further use by punching holes in it.
2. Dispose of the outer package in accordance with provincial requirements.

### **PRODUCT INFORMATION**

CITATION 75WP Insecticide is an insect growth regulator type of insecticide to control leafminers, fungus gnats and shoreflies in greenhouse ornamentals (not grown for cut flowers), sciarid flies in mushrooms, and leafminers on outdoor ornamentals (not grown for cut flowers).

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 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.

### **DIRECTIONS FOR USE**

To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.

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

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix



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partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Gowan Company at 1-800-960-4318 for information before applying any tank mix that is not specifically recommended on this label.

Gowan Company has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank-mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order.

**For Ornamentals:** Toxic to bee brood. DO NOT apply during the crop blooming period.

**For Greenhouse Uses:** Toxic to bees (brood) and other beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). May harm bees and other beneficial arthropods, including those used in greenhouse production. Avoid application when bees or other beneficial arthropods are in the treatment area.

**For all other crops on label:** Toxic to bee brood. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging. When using managed bees for pollination services, DO NOT apply during the crop blooming period.

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.

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.

Water-Soluble Packages (WSPs) are designed to dissolve in water. Agitation may be used, if necessary, to help dissolve the WSP. Failure to follow handling and mixing instructions can increase your exposure to the pesticide products in WSPs.

DO NOT apply by air.

## Ground Application

### General Information

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.

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 S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

### Handling Instructions

Follow these steps when handling pesticide products in WSPs:

1. Mix in spray tank only.

2. Handle WSP(s) in a manner that protects package from breakage and/or unintended release of contents. If package is broken, put on a minimum of coveralls, chemical-resistant gloves, chemical-resistant footwear, and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested and then continue with mixing instructions.
3. Keep the WSP(s) in outer packaging until just before use.
4. Keep the WSP dry prior to adding to the spray tank.
5. Handle with dry gloves and according to the label instructions for PPE.
6. Keep WSP intact. Do not cut or puncture WSP.
7. Reseal the WSP outer packaging to protect any unused WSP(s).

### **Mixing Instructions**

Follow the steps below when mixing this product, including if tank mixed with other pesticide products. If being tank mixed, the mixing directions 1 through 9 below take precedence over the mixing directions of the other tank mix products. All other directions for use of all tank mixed products should be followed provided they do not conflict. Do not tank mix this product with products that prohibit tank mixing or have conflicting mixing directions.

1. If a basket or strainer is present in the tank hatch, remove prior to adding the WSP to the tank.
2. Fill tank with water to approximately one-third to one-half of the desired final volume of spray.
3. Stop adding water and stop any agitation.
4. Place intact/unopened WSP(s) into the tank.
5. Do not spray water from a hose or fill pipe to break or dissolve the WSP(s).
6. Start mechanical and recirculation agitation from the bottom of tank without using any overhead recirculation, if possible. If overhead recirculation cannot be turned off, close the hatch before starting agitation.
7. Dissolving the WSP(s) may take up to 5 minutes or longer, depending on water temperature, water hardness and intensity of agitation.
8. Stop agitation before tank lid is opened.
9. Open the lid to the tank, exercising caution to avoid contact with dusts or spray mix, to verify that the WSPs have fully dissolved and the contents have been thoroughly mixed into the solution.
10. Do not add other allowed products or complete filling the tank until the bags have fully dissolved and pesticide is thoroughly mixed.
11. Once the WSP have fully dissolved and any other products have been added to the tank, resume filling the tank with water to the desired level, close the tank lid, and resume agitation.
12. Use the spray solution when mixing is complete.
13. Maintain agitation of the diluted pesticide mix during transport and application.
14. It is unlawful to use any registered pesticide, including WSPs, in a manner inconsistent with its label.

### **Spraying Instructions**

1. Water Volume: Apply in a minimum spray volume of 100 L/ha or as directed in the crop and pest specific instructions below, whichever is LARGER. Appropriate water volumes aid good coverage.
2. Spray Nozzles: 80° or 110° drift reducing flat fan (e.g. those with a pre-orifice or turbulence chamber) or air induction nozzles are recommended. Do not use flood type nozzles, controlled droplet application equipment, spray foils or hollow cone nozzles.
3. Pressure: As recommended by the nozzle manufacturer to achieve no smaller than ASABE medium sized droplets.
4. Apply at uniform speed and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to avoid potential crop injury from over application.

## Equipment Clean-Up

### Before Spraying:

- Prior to using CITATION 75WP Insecticide, ensure that the spray tank, lines and filter are thoroughly clean.

### After Spraying:

- Thoroughly clean application equipment immediately after spraying. **DO NOT** allow CITATION 75WP Insecticide residue to dry within the spray tank
- When using tank mixes, consult the tank-mix partner label for additional cleanup instructions.
- The following recommendations are provided:
  1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **Do not** clean the sprayer near desirable vegetation, flowering crops or weeds, wells or other water sources.
  2. Remove all nozzles and screens and wash separately.
  3. Dispose of all rinsate in accordance with provincial regulations.

## Airblast Application

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.

## Buffer Zones

Spot treatments using hand-held equipment do not require a buffer zone.

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

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:		
			Freshwater Habitat of Depths:		Terrestrial Habitat:
			Less than 1 m	Greater than 1 m	
Field sprayer	All crops		1	1	1
Airblast	Outdoor ornamentals	Early growth stage	3	1	2
		Late growth stage	2	1	1

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

## Rotational Crop Restrictions

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

Crop, Crop Group, or Crop Subgroup	Plant-back Interval
All labelled crops.	1 day
Tomatoes, peppers, cucumbers and melons	1 day
Hay, wheat, barley, and oats	300 days

## MINOR USES

**NOTE TO USER:** READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Gowan Company under the User Requested Minor Use Label Expansion program. For these uses, Gowan Company has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

### Greenhouse Ornamentals (not grown for cut flowers)

<b>CROPS</b>	Greenhouse Ornamentals (not grown for cut flowers)	
<b>PEST</b>	Leafminer	
<b>PRODUCT RATE</b>	188 grams of product/ha; (1 water soluble bag per 400 L of water per 0.4 ha)	
<b>NUMBER OF MAXIMUM APPLICATIONS</b>	2 applications per crop cycle	
<b>APPLICATION INTERVAL</b>	7 days	
<b>REMARKS</b>	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).	
<b>PEST</b>	Fungus Gnats	
<b>PRODUCT RATE</b>	133 grams of product/ha; (1 water soluble bag per 570 L of water per 0.57 ha)	
<b>NUMBER OF MAXIMUM APPLICATIONS</b>	4 applications per crop cycle	
<b>APPLICATION INTERVAL</b>	7 days	
<b>REMARKS</b>	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.  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

<b>PEST</b>	Shoreflies
<b>NUMBER OF MAXIMUM APPLICATIONS</b>	4 applications per crop cycle
<b>APPLICATION INTERVAL</b>	7 days
<b>REMARKS</b>	<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. Do NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

**Outdoor Ornamentals (not grown for cut flowers)**

<b>CROPS</b>	Outdoor Ornamentals (not grown for cut flowers)
<b>PEST</b>	Leafminer ( <i>Liriomyza</i> spp.)
<b>PRODUCT RATE</b>	188 grams of product/ha (1 water soluble bag per 400 L of water per 0.4 ha)
<b>APPLICATION INTERVAL</b>	7 days
<b>NUMBER OF MAXIMUM APPLICATIONS</b>	5 applications per growing season
<b>REMARKS</b>	<p>Apply as a foliar spray to runoff.</p> <p>1000 L of water per ha (400 L water per 0.4 ha) is recommended, or sufficient water to ensure thorough coverage using conventional ground application equipment, including foliar airblast or horizontal boom.</p> <p>Apply when leafminer larvae first appear. Reapply based on monitoring.</p> <p>Allow 7 days between applications.</p> <p>Do not make more than 5 applications per growing season.</p>

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

<b>Crops</b>	Mushrooms							
<b>PEST</b>	Sciariid Fly							
<b>PRODUCT RATE</b>	5 parts per million of cyromazine in compost)							
<b>REMARKS</b>	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.							
	<b>Compost Fill: Wet Weight @ 66.6% Water</b>		<b>Compost Fill: Dry Weight</b>		<b>Grams of CITATION 75WP Insecticide</b>		<b>Area Treated By One 75 Gram Water Soluble Bag of CITATION 75WP Insecticide</b>	
	<b>kg/m<sup>2</sup></b>	<b>lb/ft<sup>2</sup></b>	<b>kg/m<sup>2</sup></b>	<b>lb/ft<sup>2</sup></b>	<b>100 m<sup>2</sup></b>	<b>1000 ft<sup>2</sup></b>	<b>m<sup>2</sup></b>	<b>ft<sup>2</sup></b>
	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/m<sup>2</sup> at 66.6% moisture, use 75 grams (one water soluble bag) per 99.13 m<sup>2</sup> of compost (one water soluble bag per 1,067 ft.<sup>2</sup>). To adjust for varying moisture rates, first convert to a dry matter basis using the following formula:

***Wet weight of compost (kg/m<sup>2</sup>) x (1 - [x% compost moisture/100]).***

Locate the closest "Dry Weight (Kg/m<sup>2</sup>)" from the table and use the appropriate rate of CITATION 75WP Insecticide

## Greenhouse Lettuce

<b>Crops</b>	Greenhouse Lettuce
<b>PEST</b>	Fungus Gnats ( <i>Bradysia</i> sp)
<b>PRODUCT RATE</b>	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
<b>APPLICATION INTERVAL</b>	7 days
<b>NUMBER OF MAXIMUM APPLICATIONS</b>	4 applications per growing season
<b>REMARKS</b>	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.  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 Gowan Company company representatives at 1-800-960-4318 or at [www.gowanco.com](http://www.gowanco.com).