

Container Label

GROUP	13	INSECTICIDE
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**PYLON®
MITICIDE INSECTICIDE**

For use on greenhouse ornamental crops, greenhouse fruiting vegetables and greenhouse cucumbers

COMMERCIAL (AGRICULTURAL)

ACTIVE INGREDIENT: Chlorfenapyr 240 g/L

Contains 1,2-benzisothiazolin-3-one at 0.035% as a preservative

SUSPENSION

REGISTRATION NO. 30666

PEST CONTROL PRODUCTS ACT

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT
1-800-454-2673**



WARNING

POISON

READ THE LABEL AND ATTACHED BROCHURE BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 0.1 L – 25 L

BASF Canada Inc.
5025 Creebank Road
Building A, 2nd Floor
Mississauga, Ontario L4W 0B6
1-877-371-2273

PYLON is a registered trade-mark of BASF Agro B.V., used under license by BASF Canada Inc.

CAUTION: *Do not apply under low light conditions as crop injury may occur*

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. Harmful or fatal if swallowed. May be fatal if inhaled. Harmful if absorbed through skin.
3. DO NOT breathe vapour, spray or mist.
4. Wash thoroughly after handling and before eating, drinking or smoking.
5. Wear coveralls over long-sleeved shirt and long pants, chemical resistant gloves, socks and chemical resistant footwear during mixing, loading, application, clean up and repair. Mixers/loaders and applicators must wear either a respirator with a NIOSH approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR NIOSH approved canister approved for pesticides.
6. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
7. Clean spray equipment thoroughly after use.

ENVIRONMENTAL PRECAUTIONS

TOXIC to bees and other beneficial insects. Do not apply when bees or other beneficial insects are actively visiting the treatment area. Residues on plants or soil may harm bees and other beneficial insects used in greenhouse production.

STORAGE

1. Store the leftover product in original tightly closed container.
2. DO NOT ship or store the product near food, feed, seed and fertilizers.
3. Store in cool, dry, locked, well-ventilated area without floor drain.

DISPOSAL

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

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

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

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.

FIRST AID

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 swallowed: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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

TOXICOLOGICAL INFORMATION

The patient should be treated symptomatically.

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.

Booklet

GROUP

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GENERAL INFORMATION

PYLON miticide insecticide is a member of the pyrrole class of chemistry. **PYLON miticide insecticide** has contact and stomach activity. **PYLON miticide insecticide** uncouples oxidative phosphorylation, preventing conversion of ADP to ATP, and the target pest stops feeding shortly after exposure, and then dies from the inability to generate its own energy.

PYLON miticide insecticide may be used on non-edible ornamental plants and listed greenhouse fruiting vegetables and greenhouse cucumbers. **DO NOT** apply to greenhouse cut flowers. **PYLON miticide insecticide** is not for use in greenhouse transplant production.

PYLON miticide insecticide is not ovicidal.

DIRECTIONS FOR USE

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.

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

DO NOT apply under low light conditions as crop injury may occur.

Local conditions can also influence plant tolerance and may not match those under which the product was tested. Apply **PYLON miticide insecticide** to a small area (8–12 plants) and evaluate for 3–5 days before attempting a large-scale spray to make certain that no phytotoxicity occurs.

When populations of listed pests are high in several areas of the greenhouse or throughout several crops within one greenhouse structure, apply **PYLON miticide insecticide** at specified dosages indicated in the tables. Use sufficient water to obtain uniform and complete coverage of foliage but do not exceed the maximum spray volume specified for each crop. **PYLON miticide insecticide** is not systemic and does not translocate throughout the plant. However, **PYLON miticide insecticide** moves rapidly from the top to the underside of a leaf. **PYLON miticide insecticide** will be diluted in rapidly expanding new foliage compared to the concentration on the leaf surface at the time of application.

To assure a uniform spray solution, agitate or shake containers of this product prior to use. Prepare no more spray mixture than is needed for the immediate application of **PYLON miticide insecticide**.

GREENHOUSE ORNAMENTALS

Crop	Pest	Concentration (mL/100 L)	Remarks
Greenhouse ornamentals (including but not limited to African violet, geranium and petunia)	Two-spotted spider mite (<i>Tetranychus urticae</i>)	20 – 41	Apply when pests first appear, before crop damage occurs. Re-apply if and when monitoring indicates the need, with a minimum re-application interval of 5 days.
	Cabbage looper (<i>Trichoplusia ni</i>) Soybean looper (<i>Pseudoplusia includens</i>)	30 – 50	Apply when pests first appear, before crop damage occurs. Re-apply if and when monitoring indicates the need, with a minimum re-application interval of 5 days.
	Foliar nematodes (<i>Aphelenchoides spp.</i>)	41 – 78	Make initial application at first signs of plant damage or nematodes, followed by a second application at 7 – 14 days. A third application can be made at 4 – 6 weeks following the initial application if plant damage or nematodes are detected.
	Thrips species including chili thrips (<i>Scirtothrips dorsalis</i>) Western flower thrips (<i>Frankliniella occidentalis</i>) Onion thrips (<i>Thrips tabaci</i>)	78 – 156	Treat when pests are immature and when populations are building before crop damage occurs. Thrips concealed in blooms will be difficult to control. Re-apply if and when monitoring indicates the need, with a minimum re-application interval of 5 days.

DO NOT apply using a spray volume greater than 1500 L/ha for greenhouse ornamentals.

PYLON miticide insecticide can only be used on greenhouse ornamentals for which thorough coverage can be achieved with a maximum spray volume of 1500 L/ha per application.

DO NOT apply more than three (3) applications during a crop growing cycle.

DO NOT apply with mechanically-pressurized handheld equipment.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

Use the higher concentration under severe pest pressure.

To minimize the risk of injury to ornamentals, make applications prior to blooming or avoid blooms where possible. Apply in the coolest times of the day. **PYLON miticide insecticide** has been evaluated for phytotoxicity on a wide range of ornamental plants; however, it has not been possible to evaluate all commercially important species, varieties and cultivars within the species listed below.

No unacceptable injury has occurred to the following greenhouse ornamental plants when treated with **PYLON miticide insecticide** according to label instructions.

African daisy	Croton
African violet	Gardenia
Aster	Lisianthus
Azalea	Verbena
Begonia	
Chrysanthemum	

PHYTOTOXICITY IS LIKELY TO OCCUR to some varieties of carnations, dianthus, kalanchoe, poinsettia, roses, salvia and zinnia and applications to these species will be made at grower risk.

DO NOT APPLY WITH crop oils, surfactants and fertilizers or other tank additives. These have been shown to increase the likelihood of foliage injury and are not to be used with **PYLON miticide insecticide**.

Refer to the section on RESISTANCE MANAGEMENT RECOMMENDATIONS.

GREENHOUSE FRUITING VEGETABLES

PYLON miticide insecticide is a miticide insecticide for suppression of listed pests on the following greenhouse fruiting vegetables: eggplant (*Solanum melongena*), ground cherry (*Physalis* spp.), pepino (*Solanum muricatum*), pepper (*Capsicum* spp.), tomatillo (*Physalis ixocarpa*) and tomato (*Lycopersicon esculentum*).

Use lower rates when populations are at action thresholds, i.e. prior to infestations causing economic injury. Use higher rates when populations have reached economic injury levels for yield or quality.

Crop	Pest	Application Concentration (mL/100 L)	Maximum Number of Applications per Crop Cycle	Pre-Harvest Interval (days)
Tomato Tomatillo Ground cherry Pepper Eggplant Pepino	Tomato hornworm (<i>Manduca quinquemaculata</i>) Tobacco budworm (<i>Heliothis virescens</i>) Cabbage looper (<i>Trichoplusia ni</i>) Alfalfa looper (<i>Autographa californica</i>)	30	1	0
	Two-spotted spider mite (<i>Tetranychus urticae</i>)	20 – 30	1	0

DO NOT apply using a spray volume greater than 1000 L/ha for listed fruiting vegetables.

PYLON miticide insecticide can only be used on plant growth stages for which thorough coverage can be achieved with a maximum spray volume of 1000 L/ha per application.

Use lower concentrations when populations are at action thresholds, i.e. prior to infestations causing economic injury. Use higher concentrations when populations have reached economic injury levels for yield or quality.

DO NOT apply as an ultra low volume (ULV) spray. DO NOT apply this product through any type of irrigation equipment.

Application to tomatoes includes tomato varieties with a diameter of less than 2.5 cm when mature.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

Refer to the section on RESISTANCE MANAGEMENT RECOMMENDATIONS.

GREENHOUSE CUCUMBERS

PYLON miticide insecticide is a miticide insecticide for suppression of listed pests on greenhouse cucumbers.

Use lower rates when populations are at action thresholds, i.e. prior to infestations causing economic injury. Use higher rates when populations have reached economic injury levels for yield or quality.

Crop	Insect	Application Rate (mL/100 L)*	Maximum Number of Applications per Crop Cycle	Pre-Harvest Interval (days)
Greenhouse Cucumber	Spider mites (<i>Tetranychus</i> spp., including Two-spotted spider mite, <i>T. urticae</i>) Broad mite (<i>Polyphagotarsonemus latus</i>)	20 – 30	1	0
<p>DO NOT apply using a spray volume greater than 1000 L/ha for cucumbers</p> <p>PYLON miticide insecticide can only be used on plant growth stages for which thorough coverage can be achieved with a maximum spray volume of 1000 L/ha per application.</p> <p>Use lower concentrations when populations are at action thresholds, i.e. prior to infestations causing economic injury. Use higher concentrations when populations have reached economic injury levels for yield or quality.</p> <p>Apply when pests first appear, before crop damage occurs.</p> <p>DO NOT apply as an ultra low volume (ULV) spray. DO NOT apply this product through any type of irrigation equipment.</p> <p>DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.</p> <p>Refer to the section on RESISTANCE MANAGEMENT RECOMMENDATIONS.</p>				

MIXING

1. Ensure the spray tank is clean before use. Follow the clean-out recommendations stated on the label of the product that was previously used.
2. Shake container prior to use.
3. Fill the spray tank one-half full of water and start agitation.

4. Add the required amount of **PYLON miticide insecticide** to the tank.
5. Continue agitation while filling the remainder of the water into the spray tank.
6. After use, clean the spray tank.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that **PYLON miticide insecticide** contains a Group 13 insecticide. Any insect/mite/nematode population may contain individuals naturally resistant to **PYLON miticide insecticide** and other Group 13 insecticides/acaricide/nematicides. The resistant individuals may dominate the insect/mite/nematode population if this group of insecticides is used repeatedly in the same greenhouses. Other resistance mechanisms that are not linked to site of action but are 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 **PYLON miticide insecticide** or other Group 13 insecticides/acaricides/nematicides with different groups that control/suppress the same pests in a greenhouse.
- Use tank mixtures with insecticides/acaricides/nematicides from a different group when such use is permitted.
- Insecticide/acaricide/nematicide 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 or to report suspected resistance, contact BASF at 1-877-371-2273.

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