

# PYLON<sup>®</sup>

MITICIDE

SPECIMEN LABEL

## For Use Only on Ornamental Crops and Fruiting Vegetable Crops Grown in Commercial Greenhouses

### ACTIVE INGREDIENT:

4-bromo-2-(4-chlorophenyl)-1-(ethoxymethyl)- 5-(trifluoromethyl)-1*H*-pyrrole-3-carbonitrile . . . . . 21.4%

### INERT INGREDIENTS:

### TOTAL:

78.6%

100.0%

(1 pint contains 0.25 pounds of active ingredient)

EPA Reg. No. 241-374-59807

EPA Est. No. 51036-GA-001

### KEEP OUT OF REACH OF CHILDREN **CAUTION!/PRECAUCION!**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

**In case of emergency endangering life or property involving this product, call day or night 800-356-4647.**

### FIRST AID

<b>IF SWALLOWED</b>	<ul style="list-style-type: none"><li>Call a poison control center or doctor immediately for treatment advice.</li><li>Have person sip a glass of water if able to swallow.</li><li>DO NOT induce vomiting unless told to do so by the poison control center or doctor.</li><li>DO NOT give anything by mouth to an unconscious person.</li></ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"><li>Take off contaminated clothing.</li><li>Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"><li>Move person to fresh air.</li><li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>Call a poison control center or doctor for further treatment advice.</li></ul>
<b>IF IN EYES</b>	<ul style="list-style-type: none"><li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>Call a poison control center or doctor for treatment advice.</li></ul>

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS (and DOMESTIC ANIMALS)

### CAUTION

Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing vapor, spray or mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

### Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow instructions for Category C on an EPA chemical resistance category selection chart.

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC) or Viton ( $\geq$  14 mils).
- Shoes plus socks.

Follow manufacturer's instructions for cleaning / maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems or enclosed cabs in a manner that meets the requirements of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d) (4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for applicators and other handlers and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

Net Contents: 1 Pint (473 mL)

#### **User Safety Recommendations:**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval.

Do not enter or allow worker entry into treated areas during the restricted entry interval (**REI**) of **12 hours**.

PPE required for early entry into treated areas is that permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

- Coveralls.
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC) or Viton ( $\geq 14$  mils).
- Shoes plus socks.

## **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and wildlife.

DO NOT apply directly to water or to areas where surface water is present. Avoid spraying ponds or aquaria containing fish. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

This product is toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

DO NOT contaminate water when disposing of equipment washwater.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or regional office of the EPA.

## **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

It is unlawful to use this product on anything other than ornamental crops or fruiting vegetable crops grown in commercial greenhouses

DO NOT apply this product through any type of irrigation system. DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

## **PYLON® MITICIDE MODE OF ACTION**

**PYLON** is a member of the class of miticides known as Pyrroles. **PYLON** has good contact and excellent stomach activity. **PYLON** uncouples oxidative phosphorylation, preventing conversion of ADP to ATP, and the mite or insect dies from the inability to generate its own energy.

## **DIRECTIONS FOR USE OF PYLON MITICIDE ON ORNAMENTAL CROPS GROWN IN COMMERCIAL GREENHOUSES**

### **MIXING INSTRUCTIONS FOR USE ON GREENHOUSE GROWN ORNAMENTALS**

Shake container prior to use. Use a calibrated measuring device to measure the required amount of **PYLON**. Dilute **PYLON** in sufficient water to give thorough spray coverage of ornamental crop. Add product to clean water in partially filled spray tank while agitating. Fill the tank with remainder of the water and continue agitation. If tank mixes are used, **PYLON** must be fully dispersed in water first, followed by the addition of the tank-mixed materials.

### **APPLICATION INSTRUCTIONS FOR USE ON GREENHOUSE GROWN ORNAMENTALS**

- Apply specified dosage using sufficient water to obtain uniform and complete coverage of foliage.
- **PYLON** is not ovicidal. **PYLON** should be used in combination with a registered ovicidal miticide when moderate to high populations of eggs are present at time of application.
- When mite populations are high in several areas of the greenhouse or throughout several crops within one greenhouse structure, apply **PYLON** at 5.2 fl oz/ 100 gals (0.08 lb ai/ 100 gals) and make a sequential application at 5 –7 days after the first application. **PYLON** is not systemic and does not translocate throughout the plant. However, **PYLON** moves rapidly from the top to the underside of a leaf - to control spider mites, larvae and nymphs emerging from eggs. **PYLON**

will be diluted in rapidly expanding, new foliage as compared to the concentration in the leaf surface at the time of application. For this reason, it is important to make two consecutive applications of **PYLON** within 5 – 7 days when under high mite pressure.

- Low to moderate populations of spider mites can be controlled for 14 – 21 days with one **PYLON** application at 2.6 – 5.2 fl. oz.
- Make only one sequential application at 5 to 7- day interval when necessary. See section on RESISTANCE MANAGEMENT for additional instructions.

### SPECIAL PRECAUTIONS

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** 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. Local conditions can also influence crop safety and may not match those under which **PYLON** was tested.

**\*All tank mixes should be evaluated for phytotoxicity prior to application due to additive effects of surfactants and wetting agents contained in both formulations.**

Do not tank mix with products that contain a label prohibition against tank mixing. It is unlawful to tank mix this product if the tank mix will be used outdoors.

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

African daisy	Chrysanthemum	Grape Ivy	Petunia
African violet	Cock's comb	Impatiens	Ranunculus
Ageratum	Croton	Lily, oriental	Snapdragon
Alex Ivy	Fuschia	Lisianthus	Verbena
Aster	Gardenia	Marigold	Vinca
Azalea	Gazania	Miniature rose	
Begonia	Geranium	Needlepoint Ivy	
California Ivy	Gerbera daisy	Pansy	

\* Apply **PYLON** 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.

**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.

**NOT RECOMMENDED:** Additions of crop oils, surfactants, and fertilizers or other tank additives have been shown to increase the likelihood of foliage injury and are not recommended with this product.

### APPLICATION RATES<sup>1</sup>

Greenhouse Ornamentals (non-food plants)

PEST	RATE (fl. oz. of <b>PYLON</b> <sup>®</sup> Miticide/ 100 gal.)	RATE (lbs. ai/ 100 gal)	REMARKS
Spider mites <sup>2</sup> , including: Two-spotted spider mite ( <i>Tetranychus urticae</i> and other <i>Tetranychus</i> sp.) Broad mite ( <i>Polyphagotarsonemus latus</i> ) Citrus budmite ( <i>Eriophyes sheldoni</i> ) Cyclamen mite ( <i>Phytonemus pallidus</i> ) Rust mite ( <i>Phyllocoptes</i> sp., <i>Epitrimerus</i> sp. and <i>Aculus</i> sp.)	2.6 – 5.2	0.04 - 0.08	Use sufficient spray volume to ensure thorough coverage. Apply when pests first appear, before crop damage occurs.
Caterpillar, including: Beet armyworm ( <i>Spodoptera exigua</i> ) Cabbage looper ( <i>Trichoplusia ni</i> ) Soybean looper ( <i>Psuedoplusia includens</i> )	2.6 - 6.4	0.04 - 0.10	
Foliar nematodes ( <i>Aphelenchoides</i> spp.)	5.2 - 10	0.08 - 0.16	Make initial application (5.2 oz./100 gal.) at first signs of plant damage or nematodes, followed by a second application (5.2 oz./100 gal.) at 7-14 days. A third application (5.2 oz./100 gal.) can be made at 4 - 6 weeks following the initial application if plant damage or nematodes are detected.
Fungus gnats ( <i>Bradysia</i> sp.)	5.2 - 10	0.08 - 0.16	Apply to early larval stage. Does not control emerged adults.
Thrips including: Western flower thrips <sup>3</sup> ( <i>Frankliniella occidentalis</i> )	10 - 20	0.16 - 0.32	Treat when pests are immature and when populations are building before crop damage occurs. Thrips concealed in blooms will be difficult to control.

**1**No more than three (3) applications (not more than the 41 fl. oz. of product / 100 gal. / crop / season or 0.64 lbs. of active ingredient / 100 gal. / crop / season) should be applied during a crop growing cycle (start to finish for one ornamental crop). Refer to the section on RESISTANCE MANAGEMENT for specific application strategies.

**2**May require two (2) applications on a 5 - 7 day spray schedule at the 5.2 fl. oz./100 gal. (0.08 lb. ai/100 gal.) under high mite pressure. Refer to the section on RESISTANCE MANAGEMENT below.

**3**Combinations with other effective insecticides will enhance overall control.

## **RESISTANCE MANAGEMENT (ORNAMENTAL USE)**

Treatment may not be effective if tolerant strains develop. To reduce the potential for developing pest resistance to this product, alternate with insecticides and miticides from different classes of chemicals with different modes of action.

Use one of the following resistance management strategies:

1. DO NOT APPLY **PYLON** more than two (2) times consecutively or a total of three (3) times during a growing cycle (Start to finish for one ornamental crop.)  
— and —
2. DO NOT APPLY **PYLON** to consecutive crops in a greenhouse structure.  
— or —
3. **PYLON** SHOULD BE applied in combination with other effective miticides/insecticides with a different mode of action when used in a subsequent crop in the same greenhouse structure.

## **DIRECTIONS FOR USE OF PYLON® MITICIDE ON FRUITING VEGETABLE CROPS GROWN IN COMMERCIAL GREENHOUSES**

### **GENERAL DIRECTIONS**

- **Pylon** is a broad-spectrum miticide-insecticide, which may be used to control insect pests on the following greenhouse grown fruiting vegetables: Eggplant (*Solanum melongena*), Groundcherry (*Physalis* spp.), Pepino (*Solanum muricatum*), Pepper (*Capsicum* spp.), Tomatillo (*Physalis ixo carpa*) and Tomato (*Lycopersicon esculentum*).
- To control populations of multiple pests, use the rates required to control the most difficult insect. Use lower rates when populations are at action thresholds, i.e., prior to infestations causing economic injury, yet requiring treatment. Use higher rates when populations have reached economic injury levels for yield or quality.

## **MIXING INSTRUCTIONS FOR USE ON GREENHOUSE GROWN FRUITING VEGETABLES**

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 operation. Add one-half to three-quarters of the required amount of clean water to the spray tank.

Use a calibrated measuring device to measure the required amount of **Pylon**. Add **Pylon** to the spray tank while agitating. Fill the tank with the remainder of the water.

### **COMPATIBILITY:**

**Pylon** is compatible with a wide range of spray products, but the full range of compatibilities under local conditions is not known. Therefore, before using **Pylon** in any tank mixture, the compatibility of the mixture should be established. Add proportionate amounts of each ingredient to a pint or quart jar. Cap, shake, and let set 15 minutes. Formation of precipitates that **Do Not** re-disperse readily indicates an incompatible mixture and should not be used.

### **TANK MIXING:**

If tank mixes are used, **Pylon** must be fully dispersed in water first, followed by the addition of the tank-mix materials. Follow all applicable directions, restrictions and precautions on the label for the tank mix partners. The most restrictive labeling applies when using a tank mix. **DO NOT** tank mix with products that contain a label prohibition against tank mixing. It is unlawful to tank mix this product if the tank mix will be used outdoors.

## **APPLICATION INSTRUCTIONS FOR USE ON GREENHOUSE GROWN FRUITING VEGETABLES**

- Maintain agitation during application.
- Apply specified dosage using sufficient water to obtain uniform and complete coverage of foliage.
- Compost any discarded plant material that has been treated.
- This product can be applied up to and including the day of harvest.

**APPLICATION RATES<sup>1</sup>**  
**Greenhouse Fruiting Vegetables**

CROP	TARGET PEST	RATE fl. oz. of Pylon® Miticide / Acre	RATE lbs. a.i. / Acre	REMARKS
<b>Fruiting Vegetables</b>	Caterpillar, including: Beet armyworm ( <i>Spodoptera exigua</i> ) Southern armyworm ( <i>S. eridania</i> ) Fall armyworm ( <i>S. frugiperda</i> ) Yellowstriped armyworm ( <i>S. ornithogalli</i> ) Tomato pinworm ( <i>Keiferia lycopersicella</i> ) Tomato fruitworm ( <i>Heliothis zea</i> ) Hornworms ( <i>Manduca quinquemaculata</i> ) Cabbage looper ( <i>Trichoplusia ni</i> )	6.5 - 13	0.10 - 0.20	Apply as required by scouting. Repeat applications at an interval sufficient to maintain control. <sup>2</sup> Adjust the spray schedule (usually 5 - 10 days) according to insect pressures. Use a longer time interval when infestations are light to moderate; shorten the time interval for heavier infestations.
	Two-spotted spider mite ( <i>Tetranychus urticae</i> and other <i>Tetranychus</i> sp.) Broad mite ( <i>Polyphagotarsonemus latus</i> )	6.5 - 13	0.10 - 0.20	Use lower rates when populations are at action thresholds, i.e., prior to infestations causing economic injury yet requiring treatment.
	Western flower thrips ( <i>Frankliniella occidentalis</i> ) Melon thrips ( <i>Thrips palmi</i> )	9.8 - 13	0.15 - 0.20	Use higher rates when populations have reached economic injury levels.

<sup>1</sup> Apply the specified rate to the crop in an application volume of between 5 and 100 gallons of water per acre.

**DO NOT** apply more than 39 fl. oz. (0.6 lbs. a.i.) per acre, per crop growing cycle.

<sup>2</sup> Allow at least 5 - 7 days between each application.

**RESISTANCE AND PEST MANAGEMENT**  
**(FRUITING VEGETABLE USE)**

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

**DO NOT** apply more than two (2) consecutive applications before rotating to a chemical with a different mode of action.

**DO NOT** apply **PYLON** to consecutive crops in a greenhouse structure unless applied in combination with other effective miticides/insecticides with a different mode of action.

Crop protection chemicals should always be used in resistance pest management programs that are suitable for the crop pest complex involved. Any pest management program undertaken should coordinate different chemistry classes of insecticides in their spray schedules, thorough coverage of targeted crop/pest(s), use of proper chemical rates per label directions, monitoring pest populations, and other factors as conditions warrant. Consult your Cooperative Extension Service for suggestions on minimizing insect resistance.

**GENERAL USE RESTRICTIONS**  
**(FRUITING VEGETABLE USE)**

- Allow at least 5-7 days between each application.
- **DO NOT** apply more than 39 fl. oz. (0.6 lb. a.i.) per acre, per crop growing cycle.
- **DO NOT** apply more than three (3) applications during a crop growing cycle.
- **DO NOT** apply more than two (2) consecutive applications before rotating to a chemical with a different mode of action. See section on RESISTANCE MANAGEMENT for additional instructions.
- **DO NOT** use on tomato varieties with a diameter of less than one inch when mature.
- **DO NOT** apply as an ultra low volume (ULV) spray.
- **DO NOT** apply this product through any type of irrigation system.

## STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

**PROHIBITIONS:** DO NOT store below 32°F.

DO NOT store in direct sunlight or heat.

**PESTICIDE STORAGE:** Keep out of reach of children and animals. Store in original container in a cool, dry place. Replace lid and keep tightly closed after opening.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent).

Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration or, if allowed by State and local authorities by burning. If burned, stay out of smoke.

## DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully.

However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use or application of the product contrary to label instructions, all of which are beyond the control of OHP, Inc. All such risks shall be assumed by the user.

OHP, Inc. warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above.

Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages.

OHP, Inc. makes no other express or implied warranty, including any other express or implied warranty of FITNESS or MERCHANTABILITY.

PYLON is a registered trademark of BASF Corp.

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