

241-374

10/30/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Daniel J. O'Byrne  
Product Registration Manager  
BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709-3528

OCT 30 2009

Subject: Label Notification(s) for Pesticide Registration Notices 2007-4 and 98-10

1. Updated warranty statements
2. Other minor changes

Dear Mr. O'Byrne:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notices (PRN) 2007-4 and 98-10 dated September 21, 2009 for:

**EPA Registration 241-374**

**Pylon Miticide-Insecticide**

The Registration Division (RD) has conducted a review of this request for applicability under PR Notices 2007-4 and 98-10 and finds that the label changes requested falls within the scope of PR Notices 2007-4 and 98-10. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Nicole Williams of my staff at 703-308-5551.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs



United States  
**Environmental Protection Agency**  
 Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number 241-374	2. EPA Product Manager Richard Gebken	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) PYLON Miticide-Insecticide	PM# 10	
5. Name and Address of Applicant (Include ZIP Code) BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709-3528 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**NOTIFICATION**

**OCT 30 2009**

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Notification of label changes as allowed by PR-Notices 2007-4 and 98-10. This notification is consistent with the guidance in PR-Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA." This notification is consistent with the provisions of PR-Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 8 and 16 fluid ounces		5. Location of Label Directions <input checked="" type="checkbox"/> Container	
6. Manner in Which Label is Affixed to Product		<input checked="" type="checkbox"/> Lithograph Paper glued Stenciled		<input type="checkbox"/> Other _____	

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Daniel J. O'Byrne	Title Product Registration Manager	Telephone No. (Include Area Code) 919-543-2657
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Product Registration Manager	
4. Typed Name Daniel J. O'Byrne	5. Date Sep. 21, 2009	



The Chemical Company

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September 21, 2009

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U. S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

Attn: Mr. Richard Gebken  
Product Manager, Team 10, Insecticides Branch

**RE: Pylon miticide-insecticide, EPA Reg. No. 241-374; Notification of Label Changes Allowed by PR-Notice 2007-4 and 98-10, Submission of Final Print Master Label**

Dear Mr. Gebken:

On behalf of BASF Corporation I am submitting notification of changes to the Master label for Pylon miticide-insecticide as allowed by PR-Notice 2007-4 and 98-10.

These are changes to the previous Master label accepted by EPA on Sep. 25, 2003. Changes include:

- Revisions requested in a letter (enclosed) from Linda Arrington dated Sep. 25, 2003.
- Revised Storage And Disposal section on page 3 as per PR Notice 2007-4.
- Revisions allowed by notification as per PR-Notice 98-10, including:
  - Addition of statement on page 3 that says the product cannot be used to formulate, reformulate or repackage into any other pesticide product without the written permission of BASF Corporation.
  - Revised the Conditions of Sale and Warranty section on page 9.

All changes are highlighted for your reference.

This notification is consistent with the guidance in PR-Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA."

This notification is consistent with the provisions of PR-Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

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The Chemical Company

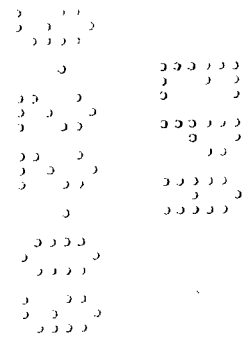
In support of this Notification I have included with this letter the following:

1. Two copies of completed application form 8570-1.
2. Final Print Master Label with changes highlighted.
3. Copy of Sep. 25, 2003 letter from L. Arrington and associated label.
4. Two (2) loose copies of the final print Master label.

If you have any questions concerning this submission please contact me directly at 919-547-2657 or [daniel.obyrne@basf.com](mailto:daniel.obyrne@basf.com).

Respectfully Submitted,

Daniel J. O'Byrne  
Product Registration Manager



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NOTIFICATION

OCT 30 2009

# Pylon<sup>®</sup> miticide-insecticide

**FOR USE ONLY ON ORNAMENTAL CROPS AND FRUITING  
VEGETABLE CROPS GROWN IN COMMERCIAL GREENHOUSES**

**ACTIVE INGREDIENT:**

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

**OTHER INGREDIENTS:** ..... 78.6%

**TOTAL:** ..... 100.0%

(8 fluid ounces contains 0.125 pounds of active ingredient.)

EPA Reg. No. 241-374

EPA Est. No. \_\_\_\_\_

**KEEP OUT OF REACH OF CHILDREN  
CAUTION/PRECAUTION**

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.)

See inside booklet for complete **First Aid, Precautionary Statements, Directions For Use, and Conditions of Sale and Warranty.**

**Net Contents:**

BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709

**BASF**  
The Chemical Company

<b>FIRST AID</b>	
If swallowed	<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>• <b>DO NOT</b> induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
If on skin or clothing	<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>
If inhaled	<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>
If in eyes	<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>
<b>HOT LINE NUMBER</b>	
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).</p>	

**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.

<b>Personal Protective Equipment (PPE)</b>
<p>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 others handlers must wear:</p> <ul style="list-style-type: none"> <li>• Long-sleeved shirt and long pants.</li> <li>• Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC) or Viton (≥14 mils).</li> <li>• Shoes plus socks.</li> </ul> <p>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.</p> <p>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. <b>IMPORTANT:</b> 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.</p>

<b>User Safety Recommendations</b>
<p>Users should:</p> <ul style="list-style-type: none"> <li>• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.</li> <li>• Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> <li>• 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.</li> </ul>

**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.

**Pylon® miticide-insecticide** cannot be used to formulate, reformulate or repackage into any other pesticide product without the written permission of BASF Corporation.

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.

### 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 that is 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 (≥14 mils).
- Shoes plus socks.

### STORAGE AND DISPOSAL

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

**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

**Nonrefillable Container. DO NOT reuse or refill this container.** Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

### PYLON® MITICIDE-INSECTICIDE MODE OF ACTION

**Pylon** is a member of the class of miticides-insecticides 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 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. ozs./100 gal. (0.08 lb a.i./100 gal.) 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. ozs.
- 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	Begonia	Gardenia	Lily, oriental	Petunia
African violet	California Ivy	Gazania	Lisianthus	Ranunculus
Ageratum	Chrysanthemum	Geranium	Marigold	Snapdragon
Alex ivy	Cock's comb	Gerbera daisy	Miniature rose	Verbena
Aster	Croton	Grape Ivy	Needlepoint Ivy	Vinca
Azalea	Fuschia	Impatiens	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. ozs. of Pylon <sup>®</sup> miticide-insecticide/100 gal.)	RATE (lbs. a.i./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>Phyllocoptruta</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>Pseudoplusia 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 fl. ozs. of Pylon/100 gal.) at first signs of plant damage or nematodes, followed by a second application (5.2 fl. ozs. of Pylon/100 gal.) at 7-14 days.  A third application (5.2 fl. ozs. of Pylon/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.

<sup>1</sup>No more than three (3) applications (not more than 41 fl. ozs. 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.

<sup>2</sup>May require two (2) applications on a 5-7 day spray schedule at the 5.2 fl. ozs. of Pylon/100 gal. (0.08 lb. a.i./100 gal.) under high mite pressure. Refer to the section on RESISTANCE MANAGEMENT below.

<sup>3</sup>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® miticide-insecticide** 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-INSECTICIDE 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 ixocarpa*) 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 PESTS	RATE fl. ozs. of Pylon® miticide- insecticide/ Acre	RATE lbs. a.i./ Acre	REMARKS
Fruiting Vegetables Tomato, Tomatillo, Ground cherry, Peppers, Eggplant, Pepinos	Caterpillars, 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> ) Tobacco budworm ( <i>Heliothis virescens</i> ) Cabbage looper ( <i>Trichoplusia ni</i> ) Alfalfa looper ( <i>Autographa californica</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.  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.
	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	
	Western flower thrips ( <i>Frankliniella occidentalis</i> ) Melon thrips ( <i>Thrips palmi</i> ) Onion thrips ( <i>Thrips tabaci</i> )	9.8 - 13	0.15 - 0.20	

<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. ozs. of **Pylon** (0.6 lb. a.i.) per acre, per crop growing cycle.

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

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## RESISTANCE AND PEST MANAGEMENT (FRUITING VEGETABLE USE)

**DO NOT** apply more than three (3) applications of **Pylon® miticide-insecticide** 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. ozs. of **Pylon** (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.

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**Conditions of Sale and Warranty**

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.**

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF. PC309

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