

241-374

2/28/2001

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060

	United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number  <span style="font-size: 1.2em;">261558</span>
	<b>Application for Pesticide - Section I</b>		

1. Company/Product Number 241-374	2. EPA Product Manager A. Sibold	3. Proposed Classification <input 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 P.O. Box 400 Princeton, NJ 08543-0400  <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 type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other - Explain below.
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**NOTIFICATION**


FEB 28 2001

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)  
 Notification to include supplemental distributor information and product name, remove redundant phrases per PR Notice 98-10. 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.

**Section - III**

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

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Dolores A. Chiarello	Title Product Registration Manager	Telephone No. (Include Area Code) 609-716-2398
Certification 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 (Stamp)
2. Signature 	3. Title Product Registration Manager	
4. Typed Name Dolores A. Chiarello	5. Date February 26, 2001	

2 7 8

**PYLON®**  
miticide-insecticide

**NOTIFICATION**

**FOR USE ON ORNAMENTAL CROPS GROWN IN  
COMMERCIAL GREENHOUSES**

**FEB 28 2001**

<b>ACTIVE INGREDIENT:</b>	4-bromo-2-(4-chlorophenyl)-1-(ethoxymethyl)- 5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile .....	21.4%
<b>INERT INGREDIENTS:</b>	.....	78.6%
<b>TOTAL:</b>	.....	100.0%

(1 gallon contains 2.0 pounds of active ingredient.)

EPA Reg. No. 241-374

EPA Est. No.

**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.)

**FIRST AID**

**IF SWALLOWED:** Call a poison control center 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 the poison control center or doctor.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center 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 center or doctor for further treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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

**In case of emergency endangering life or property involving this product,  
call day or night 800-832-HELP.**

See Inside for Additional Precautionary Statements

Net Contents:  
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01/01  
NVA 2001-05-

**BASF Corporation**  
26 Davis Drive  
Research Triangle Park, NC 27709



## 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 others 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 (≥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.

#### **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.

### 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.

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 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 (≥14 mils).
- Shoes plus socks.

**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.

**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. Its mode of action is different from the miticide-insecticide classes available today. PYLON uncouples oxidative phosphorylation, preventing conversion of ADP to ATP, and the mite or insect dies from the inability to generate its own energy.

**MIXING INSTRUCTIONS**

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**

- PYLON may be used on non-edible ornamental plants. DO NOT APPLY to vegetable transplants grown in the greenhouse.
- 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 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. 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.\***

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

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

\* 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./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 sp.</i> ) Broad mite ( <i>Polyphagotarsonemus latus</i> ) Citrus budmite ( <i>Eriophyes sheldoni</i> ) Cyclamen mite ( <i>Phytonemus pallidus</i> ) Rust mite ( <i>Phyllocoptruta sp.</i> , <i>Epitrimerus sp.</i> and <i>Aculus sp.</i> )	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	
Fungus gnats ( <i>Bradysis sp.</i> )	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 oz. of product or 0.64 lbs. of active ingredient) 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 oz/100 gal. (0.08 lb ai/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

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.

### 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 BASF Corporation. All such risks shall be assumed by the user.

BASF 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.

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

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