

241-374



7/2/2002

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

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JUL 2 2002

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Daniel O'Byrne
BASF Corporation
26 Davis Drive
P.O. Box 13528
Research Triangle Park, NC 27709-3528

Dear Mr. O'Byrne:

Subject: Pylon Miticide Insecticide
EPA Reg. No. 241-374
Submission dated 4-11-02

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. One copy of the finished labeling must be submitted prior to releasing the product for shipment.

Add to the If Swallowed statement the following:
Do not give anything by mouth to an unconscious person.

Add to the If in Eyes statement the following:
Remove contact lenses, if present, after the first five minutes, then continue rinsing eye.

Delete the following statement, which is a comparative claim:
Its mode of action is different from the miticide-insecticide classes available today.

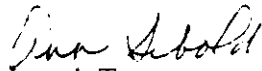
Revise the first bullet of the application instructions to read as follows:
Pylon may be used on non-edible ornamental plants grown in greenhouses. Do not apply to vegetables grown in greenhouses.

Clarify in the remarks column of the application rates for foliar nematodes that the amount of Pylon per 100 gallons is 5.2 fluid oz.

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If you have questions, please call Ann Sibold at 703 305-6502.

Sincerely,

Joe 
Joseph Tavano
Acting Product Manager 10
Insecticide Branch
Registration Division (7505C)

PYLON®
miticide-insecticide

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

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

**ACCEPTED
with COMMENTS
in EPA Letter Dated**

Net Contents:

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JUL 2 2002

NVA 2002-04-132-0065

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

241-374

BASF

PRECAUTIONARY STATEMENTS

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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.

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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. 6/9

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.

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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 RATES¹

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Greenhouse Ornamentals (non-food plants)

PEST	RATE (fl. oz./100 gal.)	RATE (lbs. ai/100 gal.)	REMARKS
Spider mites ² , 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>Pseudoplusia includens</i>).	2.6 - 6.4	0.04 - 0.10	
Foliar nematodes (<i>Aphelenchoides spp.</i>)	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 sp.</i>)	5.2 - 10	0.08 - 0.16	Apply to early larval stage. Does not control emerged adults.
Thrips, including: Western flower thrips ³ . (<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 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

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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 (BASF). 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.

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