

# PEDESTAL<sup>®</sup>

NOVALURON GROUP 15 INSECTICIDE

## INSECTICIDE

## SPECIMEN LABEL

### ACTIVE INGREDIENT:

Novaluron\* . . . . . 10.0%

OTHER INGREDIENTS\*\* . . . . . 90.0%

TOTAL: . . . . . 100.0%

\* Contains 0.83 lbs. novaluron per gallon.

\*\* Contains petroleum distillate.

EPA Reg. No. 53883-419-59807

EPA Est. No. 53883-TX-002

## KEEP OUT OF REACH OF CHILDREN

## PRECAUTIONARY STATEMENTS

### CAUTION

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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.)

**CAUTION: Contains petroleum distillate.** Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash hands thoroughly with soap and water after handling.

### Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below.

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate, nitrile rubber ≥ 14mils, neoprene rubber ≥ 14mils, or viton ≥ 14mils
- 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.

### FIRST AID

<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"><li>• Immediately call a poison control center or doctor.</li><li>• Do not give <b>any</b> liquid to the person.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</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>

### User Safety Recommendations

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE 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 clothing.

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

FOR TRANSPORTATION EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC at 1-800-424-9300.

FOR MEDICAL EMERGENCY or PRODUCT INFORMATION call 1-800-356-4647.

**NOTE TO PHYSICIAN:** This product may pose an aspiration pneumonia hazard as it contains petroleum distillate.

## ENVIRONMENTAL HAZARDS

This pesticide is toxic to freshwater and estuarine/marine invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or

Net Contents: **1 Quart (946 mL)**



rinsate. This product may contaminate water through drift of spray in wind. This product has a potential for runoff for several days to weeks after application. Poorly draining soil with shallow water tables is more prone to produce runoff. A level, well-maintained vegetative (grass) buffer strip between areas to which this product is applied and the surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

## DIRECTIONS FOR USE

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

READ ALL DIRECTIONS COMPLETELY BEFORE USE.

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 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. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

PPE required for early entry to 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 over long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate, nitrile rubber  $\geq$  14mils, neoprene rubber  $\geq$  14mils, or viton  $\geq$  14mils
- Shoes plus socks

## USE INFORMATION

**PEDESTAL** provides an effective means for controlling whiteflies, thrips, leafminers, armyworms, and certain other foliar feeding insects on container and field grown ornamentals in greenhouses, shadehouses, nurseries, in addition to controlling tomato fruitworm, tomato hornworm, tomato pinworm, loopers and armyworms on tomatoes grown in greenhouses. **PEDESTAL** is applied as a foliar spray to control immature stages of the target pests. For best results, read all use directions thoroughly. Consult your local agricultural specialist for the spray schedule best suited to your conditions.

When an adjuvant is to be used with this product, OHP, Inc. suggests the use of a Council of Producers and Distributors of Agrotechnology certified adjuvant.

**CHEMIGATION STATEMENT:** Do not apply this product through any type of irrigation system.

**NOTE:** The compatibility of **PEDESTAL** with concurrent releases of all insects used for biocontrol of plant pests has not been fully established. When used as directed, **PEDESTAL** affects developing immature stages of insects by disrupting the molting process. Consequently, fully developed adult stages of pest and beneficial species are not affected.

**MIXING INSTRUCTIONS:** Prepare solution concentrations in a clean, empty spray tank. Use clean spray filters. Add water to 1/3 level of tank. Add the appropriate amount of **PEDESTAL** to the tank and agitate to insure proper mixture. Continue filling tank with water until desired dilution is achieved. Shake or re-agitate spray tank before use if application is interrupted. Make up only the amount of application volume as required. Dispose of any unused spray material at the end of each day according to the instructions found in the **STORAGE AND DISPOSAL** section of this label.

**TANK MIXING: PEDESTAL** may also be used in tank mixtures. Test compatibility of the intended tank mixture before adding **PEDESTAL** to the spray or tank mix. 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 readily redisperse indicates an incompatible mixture that cannot be used. Add other products in the following order: water-soluble bags, wettable powders, dry flowables, liquid flowables, emulsifiable concentrates, and soluble materials such as fertilizers. If tank mixing with other products, especially soluble fertilizers containing nitrogen or boron, allow products packed in water soluble bags to dissolve first. Read and follow label directions of all products used in the tank mix before using. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mix, the most restrictive situations must apply. Tank mixtures are permitted only in those states where the tank mix partner is registered.

**SPRAY COVERAGE:** All parts of the crop must receive uniform spray coverage to achieve desired results. Consult your local agricultural specialist for specific information on the best rates, timings, and spray volumes for your region.

**PEDESTAL** is an insect growth regulator for control of listed foliar insect pests on ornamentals grown in greenhouses, shadehouses, and outdoor nurseries, as well as tomatoes grown in greenhouses. The primary mode of action is by disrupting cuticle formation and deposition occurring when insects change from one developmental stage to another resulting in death at molting. Due to this mode of action, **PEDESTAL** has no effect on adult stages of insects that have completed all of the successive molts through larval or nymphal stages of development.

**APPLICATION INSTRUCTIONS:** Apply by compressed air, hydraulic, groundboom or handheld sprayers. Do not apply with high volume airblast sprayers or by aircraft. Minimize drift and movement to non-target areas by directing spray to foliage.

### FOLIAR FEEDING AND SUCKING INSECTS CONTROLLED BY PEDESTAL:

<b>Armyworms, such as:</b>	Beet Armyworm	Lawn Armyworm	Fall Armyworm
	Southern Armyworm	Yellow Striped Armyworm	
<b>Leafminers, such as:</b>	Citrus Leafminer	Serpentine Leafminer	
<b>Thrips*, such as:</b>	Citrus Thrips	Flower Thrips	Gladiolus Thrips
	Western Flower Thrips	Melon Thrips	Chili Thrips
<b>Whiteflies*, such as:</b>	Greenhouse Whitefly	Sweetpotato Whitefly	Silverleaf Whitefly

continued

**FOLIAR FEEDING AND SUCKING INSECTS CONTROLLED BY PEDESTAL:**

*continued*

<b>Others, such as:</b>	Loopers	Tomato Fruitworm	Tomato Hornworm
	Tomato Pinworm	Foliage feeding caterpillars	
	Plant Bugs/Lygus*	Stink Bugs	

\* immatures only

**RESISTANCE MANAGEMENT**

For resistance management, **PEDESTAL** contains a Group 15/Novaluron insecticide. Any insect population may contain individuals naturally resistant to **PEDESTAL** and other Group 15 insecticide. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields.

Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of **PEDESTAL** or other Group 15 insecticide within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticide from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - When mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific site and pest problems in your area.
- For further information or to report suspected contact your local retailer or your local university extension specialist.

**USE RESTRICTIONS:**

- Do not make more than two (2) applications of **PEDESTAL** per crop per calendar year.
- Do not apply more than 52 fl. ozs. of **PEDESTAL** (63 ozs. Novaluron ai) per acre per crop season.
- Do not apply to poinsettias.
- **Note:** Do not apply to field grown ornamentals in the State of New York. Apply only to container grown ornamentals in greenhouses, shadehouses and nurseries.

**PLANT TOLERANCE:** Neither the manufacturer nor the seller has determined whether **PEDESTAL** can be used safely on all ornamental plants. Before any large-scale application, the user should determine the safety of **PEDESTAL** by testing a small number of the type of plants to be treated at the required rates and under the desired growing conditions. Observe the treated plants for symptoms of phytotoxicity, which may occur as chlorosis on sensitive plants. The user assumes all risks arising out of application to untested plants.

**INSECTS CONTROLLED BY PEDESTAL IN TOMATO (GREENHOUSES)\***

TARGET PESTS	APPLICATION RATES FL. OZS. PER ACRE	APPLICATION TIMING
Armyworms Foliage feeding caterpillars Loopers Plant bugs/Lygus Stink bugs Thrips Tomato fruitworm Tomato hornworm Tomato pinworm Whiteflies	9 - 12	Apply when the majority of the population is at egg hatch to the second instar. Apply in a spray volume of 50 - 100 gallons per acre. Use higher rates and higher spray volumes when larvae are large, or foliage canopy is tall or dense. For the most effective control, scout greenhouses and apply spray in a timely manner.  Reapplication on a 7 day interval may be required to protect fruit and foliage.  Do not apply more than three (3) applications per acre per calendar year.  Do not apply more than two applications against whiteflies or thrips per acre per calendar year.  Do not apply more than 36 fl. ozs. of <b>PEDESTAL</b> (43 ozs. Novaluron ai) per acre per crop season.  Do not apply within one day of harvest.

\* Not for use in California or New York

**FOLIAR FEEDING AND SUCKING INSECTS CONTROLLED BY PEDESTAL IN ORNAMENTALS**

TARGET PESTS	APPLICATION RATES FL. OZS. PER ACRE	APPLICATION TIMING
Armyworms Leafminers Lygus Thrips Whiteflies	6 - 8	Apply when the majority of the population is at egg hatch to the second instar. Use higher rates and higher spray volumes when larvae are large, or foliage canopy is tall or dense. Reapplication on a 7 - 10 day interval or sooner  <i>continued</i>

**FOLIAR FEEDING AND SUCKING INSECTS CONTROLLED BY PEDESTAL IN ORNAMENTALS**

<b>TARGET PESTS</b>	<b>APPLICATION RATES FL. OZS. PER ACRE</b>	<b>APPLICATION TIMING <i>continued</i></b>
Armyworms Leafminers Lygus Thrips Whiteflies	6 - 8	<p>may be required. For the most effective control, scout greenhouses and apply spray in a timely manner.</p> <p>When pest population pressure is high, use the higher label rates.</p> <p>Apply as a spray to the foliage through conventional spray equipment. One gallon of finished spray will treat 200 sq. ft. of greenhouse bench area.</p> <p>Do not make more than two (2) applications of <b>PEDESTAL</b> per acre per calendar year.</p> <p>Do not apply more than 36 fl. ozs. of <b>PEDESTAL</b> (43 ozs. Novaluron ai) per acre per crop season.</p> <p>Do not apply to poinsettias.</p>

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in a cool, dry (preferably locked) area that is inaccessible to children and animals.

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

**CONTAINER HANDLING: Nonrefillable Container (five gallons or less):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse 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.

**Nonrefillable Container (greater than five gallons):** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds.

Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**Refillable Container:** Refillable container. Refill this container with novaluron only. Do not reuse this container for any other purpose. Cleaning the container before final disposal *continued*

**STORAGE AND DISPOSAL *continued***

is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

**WARRANTY STATEMENT**

The Directions for Use of this product must be followed carefully. 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 manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of OHP, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold OHP, Inc. and Seller harmless for any claims relating to such factors.

To the extent consistent with applicable law, OHP, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or OHP, Inc., and Buyer and User assume the risk of any such use. OHP, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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