For control of selected insects, including whiteflies, soft scales, fungus gnats, thrips, shore flies, and lepidopterous leafminers in container and landscape ornamentals, nurseries, greenhouse ornamental crops, and interiorscapes

ACTIVE INGREDIENT:
Fenoxycarb (CAS No. 72490-01-8) 25.0%

OTHER INGREDIENTS:

TOTAL: 100.0%

Precision is a wettable powder.

**INSECT GROWTH REGULATOR**

Made in Switzerland

This outer protective container contains Precision in 8 small, inner water-soluble pouches. Entire inner pouches and their contents dissolve in water. After opening outer container, immediately dump the required number of pouches into the partially filled sprayer or mix tank. Do not handle the soluble pouches or expose them to moisture, since this may cause rupturing. If not using all water-soluble pouches, press to reseal the outer protective container for storage. Novartis and the Seller strongly recommend against using partial water-soluble contents of Precision. Such practice may result in injury and/or failure of performance.

**DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY**

**IMPORTANT:** Read the entire Directions for Use and Conditions of Sale and Warranty before using this product. If terms are not acceptable, return the unused product container at once.

**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 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 manner of use or application all of which are beyond the control of Novartis Crop Protection, Inc. or the Seller. All such risks shall be assumed by the Buyer.

Novartis 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. Novartis makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Novartis or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. Novartis 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 Novartis.

**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 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 (WPS) Part 190. 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, respiratory protection, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to statements on this label.

The requirements in this box apply only 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.

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas without protective clothing until the spray mixture uniformly covers all plant parts, particularly the stem and the underside of the leaves. Spray the plants to the point of runoff. Follow the manufacturer’s recommendations for proper use of application equipment.

For the control of fungus gnats (Bradynia spp.) and shore flies (Scatella spp.), apply 4 oz. of Precision in 100 gals. of water as a spray to all surfaces where the insect pests may breed. This includes the potting media surfaces, bench tops, undersides of benches, and the areas under the benches that may be contaminated with potting media or algae. For best results, the sprayed surfaces should be drenched with sufficient water to thoroughly wet the surface of the pots and soil under the benches.

Begin applications on a 10-14 day schedule to minimize reinfection.

For use during plug establishment and on newly established bedding plants, do not exceed 2 oz. of Precision per 100 gals. of spray on a 14-day schedule.

For control of lepidopterous leafminers (e.g., azalea leafminer, citrus leafminer), apply 6-8 oz. of Precision per 100 gals. of water at oviposition begins on the new flush of growth. A second application should be made 14-21 days later. Applications should be made in full coverage sprays to the point of runoff.

For the control of honeylocust pod gall midge (Dasineura gleditschiae) on honeylocust trees, apply Precision at 2-4 oz. in 100 gals. of spray in combination with an adjuvant labeled for this pest. Spray the plants to the point of runoff. Applications should be made on a 14-day schedule or based on field surveys. Precision, when used in this manner, will result in reduced viable larvae and pupae compared to use of the adjuvicide alone.

Precision will not control the adult stages of the insect pests. For control of adults, insecticides labeled for adult insect control should be used.

Do not exceed a maximum of 30 applications per year for greenhouse use.

**Application Instructions for Use in Irrigation Systems**

Chemigation: Do not apply Precision through any type of irrigation system when applying for control of foliar insects. Precision may be applied through overhead irrigation at rates recommended in this label to provide proper coverage of all surfaces when treating for fungus gnats and shore flies. Do not apply this product through any other type of irrigation system. Plant injury or lack of effectiveness can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Specialists, equipment manufacturers, or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**GENERAL INFORMATION**

For control of selected insects, including whiteflies (sweet potato and greenhouse), soft scales, fungus gnats, shore flies, and lepidopterous leafminers, in landscape ornamentals, container grown ornamentals, non-bearing fruit and nut trees in nurseries, Christmas tree plantations, ground covers, greenhouse, lawn and shade house ornamental crops, and interiorscapes.

Precision can be used in conjunction with IPM practices including the early detection of target insect populations, use with beneficial insects, threshold treatment levels, cultural control practices, and other procedures to manage target pest populations. Refer to local extension or university personnel or brochures for information on IPM practices.

**APPLICATION**

For control of white flies (silverfox [silver sweet potato] and greenhouse), thrips (including Western flower thrips), and soft scale insects (such as brown soft scale, cottony cushion scale, eucryphon scale, magnolias white scale, clamder pit scale, wax scale, white peach scale, etc.), apply 2-4 oz. of Precision per 100 gals. of water as soon as the presence of target insects is detected. Sprays for control of scale should be directed to the crawler stage. Repeat applications at 7-14 day intervals to control the immature stages of the insect pests. Apply the spray mixture uniformly to all surfaces of the plants, particularly the stem and the underside of the leaves. Spray the plants to the point of runoff. Follow the manufacturer’s recommendations for proper use of application equipment.

For the control of fungus gnats (Bradynia spp.) and shore flies (Scatella spp.), apply 4 oz. of Precision in 100 gals. of water as a spray to all surfaces where the insect pests may breed. This includes the potting media surfaces, bench tops, undersides of benches, and the areas under the benches that may be contaminated with potting media or algae. For best results, the sprayed surfaces should be drenched with sufficient water to thoroughly wet the surface of the pots and soil under the benches. Repeat applications on a 10-14 day schedule to minimize reinfection.

For use during plug establishment and on newly established bedding plants, do not exceed 2 oz. of Precision per 100 gals. of spray on a 14-day schedule.

For control of lepidopterous leafminers (e.g., azalea leafminer, citrus leafminer), apply 6-8 oz. of Precision per 100 gals. of water at oviposition begins on the new flush of growth. A second application should be made 14-21 days later. Applications should be made in full coverage sprays to the point of runoff.

For the control of honeylocust pod gall midge (Dasineura gleditschiae) on honeylocust trees, apply Precision at 2-4 oz. in 100 gals. of spray in combination with an adjuvant labeled for this pest. Spray the plants to the point of runoff. Applications should be made on a 14-day schedule or based on field surveys. Precision, when used in this manner, will result in reduced viable larvae and pupae compared to use of the adjuvicide alone.

Precision will not control the adult stages of the insect pests. For control of adults, insecticides labeled for adult insect control should be used.

Do not exceed a maximum of 30 applications per year for greenhouse use.

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**Operation Instructions**


1. The system must contain a functional check-valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.

2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.

3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

4. The system must contain functional interlocks controls to automatically shut off the pesticide injection pump when the water pump motor stops.

5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

7. Do not apply when wind speed favors drift beyond the area intended for treatment. Avoid spray overlap as injury may result.

8. Prepare a minimum mixture of 1 gal. of water to 1 packet of Precision and inject this mixture into the system. Injecting a larger volume of a more dilute mixture will usually provide more accurate calibration of metering equipment. Maintain sufficient agitation to keep Precision in suspension.

9. Meter into irrigation water during the beginning of the irrigation cycle. It is important to continue running the system after the Precision application is finished to remove all the product from the foliage and get it into the areas where the immature insect stages are located.

Precaution for irrigation applications: Where distribution patterns do not overlap sufficiently, unacceptable control may result. Where different patterns overlap excessively, injury to desirable plants may result.

Notes: (1) Precision has been evaluated for safety to many greenhouse, nursery, bulb, and ornamental plants as a foliar spray for whitefly, thrips, scales, etc. and as a drench for control of fungus gnats and shore flies. Precision has been shown to be safe on over 150 foliage plants, bedding plants, flowering plants, and nursery cultivars grown under University research and commercial production conditions. While many species and cultivars have been tested and exhibited safety to labeled rates of Precision, each species and cultivar should be evaluated for phytotoxicity prior to making an application to the entire crop. (2) To evaluate possible phytotoxic effects, before treating ornamental crops, the grower should test Precision on a small group of plants, under the same conditions in which they will be grown, for at least 2 weeks. (3) Applications should not be made to poinsettia prior to bract development. (4) Applications should not be made to poinsettia after bract development.

Mixing Instructions
Prepare no more spray mixture than is necessary for the immediate operation. Thoroughly clean spray equipment before using the product. Agitate thoroughly before and during application. Rotating agitation is suggested to keep Precision thoroughly mixed and in suspension. Flush spray tank thoroughly with clean water daily after each use. Dispose of pesticide rinse water in a previously treated area.

Precision Alone: Add 1/2-3/4 of the required amount of water to the spray or mix tank. With the agitator running, drop the required number of unopened soluble packets of Precision into the tank all at once. Continue agitation while adding the remainder of the water. Begin application of the spray solution after the packets have dissolved and the material has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

Add 1/2-2/3 of the required amount of water to the spray or mix tank. With the agitator running, drop the required number of unopened soluble packets of Precision into the tank all at once. Continue agitation while adding the remainder of the water. Tank mix partners may be added only when: (1) The Precision packets and their contents have dissolved and dispersed into the mix water, and (2) when the tank has filled with water. Maintain agitation while adding the tank mix partners and while spraying the solution on the crop.

Precautions: (1) Water-soluble packets of Precision must be completely dissolved and dispersed in water before any other tank mix partner, including micronutrients or other liquid or dry fertilizer is added to the spray solution. (2) When more than one product is packaged in water-soluble packets, add all of those products at once to the mix or spray tank. Apply any other products after the soluble packets have completely dissolved and the material has completely dispersed into the mix water.

Note: Do not let spray solution stand overnight in the spray tank. Rinse spray tank at the end of the day.

Table 1: Application to Control Whiteflies, Scales, and Thrips

<table>
<thead>
<tr>
<th>Area to be treated</th>
<th>2,000 sq. ft.</th>
<th>10,000 sq. ft.</th>
<th>5,000 sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Volume (gal.)</td>
<td>100 gals.</td>
<td>50 gals.</td>
<td>25 gals.</td>
</tr>
<tr>
<td>Number of Water-Soluble Packets</td>
<td>4</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Table 2: Spray Application to Control Fungus Gnats and Shore Flies*

<table>
<thead>
<tr>
<th>Area to be treated</th>
<th>2,000 sq. ft.</th>
<th>10,000 sq. ft.</th>
<th>5,000 sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Volume (gal.)</td>
<td>100 gals.</td>
<td>50 gals.</td>
<td>25 gals.</td>
</tr>
<tr>
<td>Number of Water-Soluble Packets</td>
<td>4</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

*For drench application: First apply as a spray and drench in with sufficient water to thoroughly wet the surface of the planting medium and soil under benches following the spray application.

Electrostatic Spraying Systems, Polifoam® Systems, or Other Low Volume Systems
Precision has been evaluated and shown to be effective for foliar applications when applied through these application systems. To calculate the amount of product to be applied, the appropriate amount of Precision for the square footage to be treated with spray as listed. The amount of carrier (water) is dependent on the amount needed for adequate coverage. Electrostatic Spraying Systems should not be used by application control fungus gnats and shore flies. By design, Electrostatic Spraying Systems apply the material on a precise spray pattern and will not fog or de-liriate growths, which is the planned target.

STORAGE AND DISPOSAL

Pesticide Storage
Do not store product under wet conditions; store in a cool, dry place. Handle outer container carefully to avoid breakage of inner solution pouches.

Pesticide Disposal
Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal
Do not reuse outer container. Dispose of empty outer container in a sanitary landfill or by incineration, or, if allowed by state and local authorities, dispose of by burning. If container is burned, stay out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment, facilities, and soil. Keep and dispose of PPE and wash equipment wash waters.

Environmental Hazards
This product is toxic to fish and aquatic invertebrates. Drift and runoff from treated sites may be hazardous to aquatic invertebrates in adjacent aquatic habitats. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters.

Hazardous to Humans and Domestic Animals
CAUTION
Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing.

Statement of Practical Treatment
If on skin: Wash with plenty of soap and water. Get medical attention.

If in eyes: Flush with plenty of water. Call a physician if irritation persists.

If ingested: Move victim to fresh air.

Personal Protective Equipment
Applicators and other handlers must wear:
• Long-sleeved shirt and long pants
• Waterproof gloves
• Shoes plus socks

The use of coveralls and a respirator with either an organic vapor removing cartridge with a prefilter approved for pesticides or a canister approved for pesticides is recommended during application.

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.

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.

Precision* Accu-Pak® Insect Growth Regulator
Greensboro, North Carolina 27419

Precautionary Statements

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