

# ENSTAR<sup>®</sup> AQ

**INSECT Growth Regulator**

**FOR CONTROL OF WHITEFLIES, THRIPS, APHIDS, SOFT-BODIED AND ARMORED SCALES, MEALYBUGS, LEAFMINERS, GLASSY-WINGED SHARPSHOOTERS, AND FUNGUS GNATS**

**FOR USE ON ORNAMENTAL PLANTS IN GREENHOUSES, SHADEHOUSES, LATH HOUSES, AND INTERIORSCAPES (I.E., ATRIUMS)**

**FOR INDOOR USE ONLY**

## SPECIMEN LABEL

**ACTIVE INGREDIENT:**

S-Kinoprene (2-propynyl-(2E,4E,7S)-3, 7,11-trimethyl-2-4-dodecadienoate) . . . . . 18.4%

**OTHER INGREDIENTS:** . . . . . 81.6%  
Total . . . 100.0%

Contains 0.195 lb active ingredient per pint

EPA Reg. No. 2724-793 EPA Est. No. 2724-TX-1

KEEP OUT OF REACH OF CHILDREN

### CAUTION

See Additional Precautionary Statements

### PRECAUTIONARY STATEMENTS – HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### FIRST AID

Call a poison control center or doctor immediately for treatment advice.

**If swallowed** • 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. • Do not give anything to an unconscious person.

**If in eyes** • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-248-7763 for emergency medical treatment information (24 hrs).

#### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear: • Long-sleeved shirt and long pants • 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.

#### ENGINEERING CONTROLS STATEMENTS:

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in 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.

## 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, 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 (REI). 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 4 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
- Chemical-resistant gloves (made of any waterproof material)
- Shoes plus socks

### MIXING INSTRUCTIONS

1. Partially fill spray tank with water, then add labeled amount of ENSTAR® AQ, agitate, and complete filling.
2. Use diluted spray solution within 24 hours; always agitate before using.

## APPLICATIONS FOR GREENHOUSE, SHADEHOUSE, AND LATH HOUSE

### GROWN PLANTS

#### RATE OF APPLICATION

#### FOR WHITEFLIES, THIRPS, APHIDS, SOFT-BODIED AND ARMORED SCALES, LEAFMINERS, AND GLASSY-WINGED SHARPSHOOTERS

**Preventative Program:** Before insect populations reach damaging levels, mix ENSTAR® AQ at the rate of 16 fl oz per 100 gallons of water and apply to runoff every 2 weeks.

**Curative Program:** For an existing population of adult insects, make 2 applications 7 days apart of

ENSTAR® AQ to runoff at a rate of 32 fl oz per 100 gallons of water per 20,000 square feet. Two weeks later, begin the Preventative Program by using 16 fl oz ENSTAR® AQ per 100 gallons of water to spray 20,000 square feet.

#### FOR FUNGUS GNAT AND LEAFMINER CONTROL

For the control of larvae and adult fungus gnats/leafminers in moderate infestations, apply ENSTAR® AQ at 16 fl oz per 100 gallons of water per 20,000 sq ft or 24 ml (5 tsp) in 5 gallons per 1,000 sq ft, increase rate to 32 fl oz per 20,000 sq ft or 48 ml (3.5 tablespoons) per 5 gallons water per 1,000 sq ft for heavy infestations. Complete coverage of soil is essential for fungus gnat/leafminer control. Water as a drench after spraying to ensure ENSTAR® AQ contact with larvae and eggs. Apply ENSTAR® AQ for fungus gnat/leafminer control before or after emergence of seedlings or on established production. Make 2 applications 7 to 10 days apart. Monitor fungus gnat/leafminer population and make additional applications if necessary.

#### FOR ROOT (GROUND) MEALYBUG

When infestations of root mealybugs are observed, drench the entire pot containing the infested plant by submersion in a solution of ENSTAR® AQ at a rate of 3.5 tablespoons (48 ml) per 5 gallons of water. Continue submersion until no more air bubbles are seen escaping from the fluid surface. This ensures that the root system is saturated and the container is thoroughly treated. Repeat as necessary.

#### SQUARE FOOTAGE

When using 16 fl oz of ENSTAR® AQ for Preventative Program or 32 fl oz for a Curative Program, refer to table below for square footage calculations:

Water to be Used*	100 gal	50 gal	25 gal	12.5 gal	5 gal
Square Ft	20,000	10,000	5,000	2,500	1,000
Preventative	16 fl oz or 473 ml	8 fl oz or 236.5 ml	4 fl oz or 118.3 ml	2 fl oz or 59.1 ml	5 tsp or 24 ml
Curative	32 fl oz or 946 ml	16 fl oz or 473 ml	8 fl oz or 236.5 ml	4 fl oz or 118.3 ml	3.5 Tbsp or 48 ml

\* When using Electrostatic Spraying System (ESS™) or pulsFOG® equipment, apply the labeled amount of ENSTAR® AQ over the square footage with the manufacturer's requirement of water. Follow manufacturer's calibration procedures.

#### METHODS OF APPLICATION

Complete coverage of foliage is essential for control of whiteflies, thrips, aphids, mealybugs, fungus gnats, leafminers, glassy-winged sharpshooters, and scales. For conventional spray equipment, mix the labeled amount of ENSTAR® AQ and water and

spray both top and bottom surfaces of leaves until runoff. For other applications, follow the equipment manufacturer's specifications.

ENSTAR® AQ is compatible with other commonly used insecticides and miticides, such as MAVRIK AQUAFLOW®. Before mixing in spray tank; however, it is advisable to test physical compatibility by mixing all components in a small container in proportionate quantities. Read and follow all precautionary statements, mixing instructions, and label directions on tank mix products.

### EFFECTS ON PLANTS

ENSTAR® AQ has been tested on many varieties of bracking poinsettia and other plant species without signs of phytotoxicity. However, growing conditions and cultural practices vary and it is advisable to test on a small sample prior to treating an entire crop to observe for potential crop injury.

### DIRECTIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Apply this product only through sprinkler irrigation systems including drip, microjet, and overhead irrigation. Do not apply this product through any other type of irrigation system. **NOTE:** DO NOT USE IRRIGATION SYSTEMS THAT DO NOT PENETRATE TO PESTS ON THE UNDERSIDE OF LEAVES AS ERRATIC RESULTS CAN OCCUR. DO NOT USE CHEMIGATION WHEN TREATING FOR ROOT MEALYBUGS.

**SPRAY PREPARATION:** Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

**APPLICATION INSTRUCTIONS:** First prepare a suspension of ENSTAR® AQ in a mix tank. Fill tank with ½ to ¾ the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of ENSTAR® AQ and then the remaining volume of water. Then set irrigation equipment to deliver the appropriate amount of ENSTAR® AQ per 20,000 sq ft. Use sufficient irrigation to provide adequate coverage of leaves. For control of soil-dwelling fungus gnat larvae, use only drip or microjet irrigation systems, prepare the ENSTAR® AQ solution as previously described and deliver the appropriate amount of ENSTAR® AQ in an equivalent to ¼ inch of water per 20,000 square feet. Start sprinkler and uniformly inject the suspension of ENSTAR® AQ into the irrigation water line so as to deliver the desired rate. The suspension of ENSTAR® AQ should be injected with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing. Allow foliage to dry prior to resuming normal irrigation. If you have questions

about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

### GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS:

Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension. Where distribution patterns do not overlap sufficiently, unacceptable control may result. Where distribution patterns overlap excessively, injury to desirable plants may result.

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. The pesticide injection pipeline must contain a functional, automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump. 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. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. 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 the pesticide distribution is adversely affected. 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.

Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. 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. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**Storage:** Store in a cool, dry place.

**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 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  $\frac{1}{4}$  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. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

## WARRANTY/DISCLAIMER

Seller warrants that this product complies with the specifications expressed in this label. To the extent consistent with applicable law, Seller makes no other warranties, and disclaims all other warranties, express or implied, but not limited to warranties of merchantability and fitness for the intended purpose. To the extent consistent with applicable law, Seller's liability or default, breach or failure under this label shall be limited to the amount of the purchase price. To the extent consistent with applicable law, Seller shall have no liability for consequential damages.

For information or in case of an emergency, call 1-800-248-7763.

[www.centralgrower.com](http://www.centralgrower.com)

### Wellmark International

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