

55947-82

9/20/1996

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Container Label
ENSTAR® II

INSECT GROWTH REGULATOR

For Control of Whiteflies, Aphids, Soft-bodied and Armored Scales,
Mealybugs, and Fungus Gnats in
Greenhouses and Interiorscapes (i.e., Atriums) on Ornamental Plants

ACTIVE INGREDIENT

S-Kinoprene [2-propynyl(2E,4E)-(7S)-3,7,11-trimethyl-2,4-dodecadienoate]* 65.1%

INERT INGREDIENTS..... 34.9%

TOTAL..... 100.0%

Contains 0.625 lb. active ingredient per pint

ENSTAR® is a registered trademark of Sandoz Ltd.,

*U.S. Patent 4021461

EPA Reg. No. 55947-82

EPA Est. No. 2724-TX-1

Net Contents:

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

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.)

See Booklet For Additional Precautionary Statements

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Sandoz Agro, Inc.
1300 East Touhy Avenue
Des Plaines, Illinois 60018

ACCEPTED
SEP 20 1996
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 55947-82

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS WARNING

Harmful if swallowed or absorbed through skin. May cause eye irritation. May also cause skin sensitization reactions in certain individuals. Harmful if inhaled, avoid breathing spray mist. Avoid contact with skin, eyes or clothing. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. Wash thoroughly after handling. Do not store near or contaminate food or feedstuffs.

Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category section chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or viton
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.
- 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.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

INSTRUCTIONS FOR USE

1. Partially fill spray tank with water, then add recommended amount of ENSTAR® II, agitate and complete filling.
2. Diluted spray solution should be used within twenty-four (24) hours; always agitate before using.

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RECOMMENDED GREENHOUSE APPLICATIONS RATE OF APPLICATION

For Whiteflies, Aphids, Soft-bodied and Armored Scales:

- **Preventative Program:** Before insect populations reach damaging levels, mix ENSTAR® II at the rate of 5 ounces per 100 gallons of water ($\frac{1}{3}$ tsp/1 gal) and apply to runoff every two (2) weeks.
- **Curative Program:** For an existing population of adult insects, make two (2) applications seven (7) days apart of ENSTAR® II to runoff at a rate of 10 ounces per 100 gallons of water (1 tsp./gal.). Two (2) weeks later, begin the Preventative Program. 100 gallons of mixture should be sprayed over 15,000-20,000 square feet.

For Fungus Gnat Control: For the control of larvae and adult fungus gnat apply ENSTAR® II at 5 oz. per 100 gals. of water (1.5 tsp./5 gals./1,000 sq. ft.) for moderate infestations to 10 oz. (3 tsp./5 gals./1,000 sq.ft.) for heavy infestations. Complete coverage of soil is essential for fungus gnat control. Water as a drench after spraying to insure ENSTAR® II contact with larvae and eggs. ENSTAR® II may be applied for fungus gnat control before or after emergence of seedlings or on established production. Make 2 applications 7-10 days apart. Monitor fungus gnat population and make additional applications if necessary.

For Root (Ground) Mealybug: When infestations of root mealybugs are observed, the entire pot containing the infested plant should be drenched by submersion in a solution of ENSTAR® II at a rate of one-half ($\frac{1}{2}$) ounce per five (5) gals. of water [3 tsp./5 gals.]. Submersion should continue until no more air bubbles are seen escaping from the fluid surface. This insures that the root system is saturated and the container is thoroughly treated. Repeat as necessary.

Square Footage: When using 5 oz. of ENSTAR® II for Preventative Program or 10 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	5 oz.	2½ oz.	6½ tsp.	3¼ tsp.	1½ tsp.
Curative	10 oz.	5 oz.	12 tsp.	6 tsp.	3 tsp.

*When using Electro Static Spraying System (ESS®) or Puls-fog® equipment apply the recommended amount of ENSTAR® II over the square footage with the manufacturer's requirement of water. Follow manufacturer's calibration procedures.

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METHODS OF APPLICATION

Do not apply ENSTAR® II through any type of irrigation system.

Complete coverage of foliage is essential for control of whiteflies, aphids, mealybugs, fungus gnats and scales. For conventional spray equipment, mix the recommended amount of ENSTAR® II and water and spray both top and bottom surfaces of leaves until runoff. For other applications, follow the equipment manufacturer's specifications.

ENSTAR® II is compatible with other commonly used insecticides and miticides, such as MAVRIK AQUAFLOW® and PENTAC 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 GREENHOUSE PLANTS

Slight to moderate injury has occasionally been noted on some blooms under certain conditions. For insect control, it is suggested that applications be made in the pre-bloom stage. Before making large-scale application to any crop, a grower should test spray small numbers of plants to determine plant safety under his own cultural conditions.

Applications of ENSTAR® II have been made to greenhouse plants (aluminum plant, azalea, Boston fern, bromeliad, chrysanthemum, devil's ivy, dianthus, dracaena compacta, emerald gem nephthylis, English ivy, epipremnum aureum, exotica perfection dumbcane, false aralia, fluffy ruffles fern, fuchsia, geranium, gerbera, gloxinia, heartleaf philodendron, hydrangea, kalanchoë, lantana, lily, marigold, pelargonium, petunia, purple passion plant, red-veined prayer plant, Sanders dracaena, snapdragon, table fern, variegated oval leaf peperomia, wax plant, weeping fig), foliage plants (areca palm, aucubifolium [cotton], coleus varieties, commutatum evergreen, coral ardisia, grape ivy, neanthe belle palm, sprengeri fern, zebra plant) without adverse effects.

Application of ENSTAR® II should be made to poinsettia prior to bract formation. Foliar damage on some sensitive varieties can result; therefore, test on a small area before large-scale use. Some varieties of roses, such as yellow blooded roses, show delayed damage.