

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS**

CAUTION

Harmful if swallowed or absorbed through the skin. 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 feed or foodstuffs.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

**DIRECTIONS FOR USE
GENERAL CLASSIFICATION**

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

STORAGE AND DISPOSAL

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

STORAGE: Store in a cool place.

DISPOSAL: Bury empty container or discard according to local regulations. Never reuse empty container.

INSTRUCTIONS FOR USE

1. Partially fill spray tank with water, then add the recommended amount of ENSTAR 5E, agitate and complete filling.
2. Diluted spray solution should be used within 24 hours; always agitate before using.

WARRANTY AND CONDITIONS OF SALE

Zoecon warrants that this product conforms to the chemical description on the label and is useful for the control of greenhouse pests as described herein. Neither Zoecon nor the seller make any other warranty, express or implied.

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ENSTAR® 5E

INSECT GROWTH REGULATOR

FOR CONTROL OF WHITEFLIES, APHIDS, SOFT AND ARMORED
SCALES, AND MEALYBUGS IN GREENHOUSES ON
ORNAMENTAL PLANTS AND VEGETABLE SEED CROPS

ACTIVE INGREDIENTS: kinoprene
[2-propynyl (E,E)-3,7,11-trimethyl-2,4-
dodecadienoate] 65.3%
INERT INGREDIENTS: 34.7%
TOTAL 100.0%

Formulation contains 0.025 lb. active ingredient per pint

U.S. Pat. 4,021,461 E.P.A. Reg. No. 20954-4-2A
ENSTAR is a registered trademark of Zoecon Corporation
E.P.A. Est. No. 20954-CA-2

Keep out of reach of children

CAUTION

See side panel for additional precautionary statements.

MFG. BY

Zoecon Corporation, 975 California Ave., Palo Alto, CA 94304

RECOMMENDED GREENHOUSE APPLICATIONS

RATES OF APPLICATION

Preventative Maintenance Program: Before insect populations reach damaging levels, mix ENSTAR 5E at the rate of 6 to 10 oz per 100 gallons of water (1 tsp/2gal) and spray to runoff every two weeks. Generally, 1 oz of ENSTAR 5E per 2,000 sq ft every two weeks is required for Preventative Maintenance.

Heavy Population Control Program: To a heavy population of adult insects, make 2 applications 7 days apart of ENSTAR 5E to runoff at a rate of 20 oz per 100 gallons of water (1 tsp/gal). Two weeks later, begin the Preventative Maintenance Program.

For Root (Ground) Mealybug Control: When infestations of root mealybug are observed, the entire pot containing the infested plant should be drenched by submersion in a solution of ENSTAR 5E at a rate of 1 oz per 5 gal of water. Submersion should continue until no more air bubbles are seen escaping from the fluid surface. This insures that the root system surface is saturated, and the container is thoroughly treated.

METHODS OF APPLICATION

Complete coverage of foliage is essential for control of whiteflies, aphids, mealybugs, and scales. For conventional spray equipment, mix the recommended amount of ENSTAR 5E and water and spray both top and bottom surfaces of leaves until runoff. For other applications, follow the equipment manufacturer's specifications.

EFFECTS ON GREENHOUSE PLANTS

Slight to moderate injury has occasionally been noted on 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 5E have been made to greenhouse plants (Azalea, Chrysanthemum, Dianthus, Fuchsia, Geranium, Hydrangea, Marigold, Pelargonium, Petunia, Snapdragon) and vegetable seed crops in greenhouses (Java Bean, Green Bean, Spinach, Sugar Beet, Tomato) without adverse effects.

Application of ENSTAR 5E to poinsettia has produced bract damage of most varieties and foliar damage of some varieties. Some varieties of roses show delayed damage.

Seeds from treated vegetable seed crops must be used only for subsequent planting. Portions of treated plants other than seeds must be disposed of according to local regulations and must not be used for food or feedstuffs.

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ENSTAR® 5E

INSECT-GROWTH REGULATOR

For Control of Whiteflies, Aphids, Soft and Armored
Scales, and Mealybugs in Greenhouses on
Ornamental Plants and Vegetable Seed Crops

What is ENSTAR 5E insect growth regulator?

ENSTAR 5E insect growth regulator (IGR) is a chemical analog of a natural insect hormone. Unlike traditional pesticides the presence of ENSTAR 5E does not produce an immediate insect kill, but rather it interferes with the normal process of insect development. Because ENSTAR 5E is specific for insects of the order Homoptera, it is recommended for control of whiteflies, aphids, scales, and mealybugs in greenhouses.

What does ENSTAR 5E IGR do?

At the preventative maintenance rate, ENSTAR 5E causes morphogenetic, ovicidal, and sterilizing effects which result in a gradual reduction of insect populations to below-damaging levels. Prevention methods should allow sufficient time (two weeks) after application for the full control benefits of ENSTAR 5E. At the heavy control rate, ENSTAR 5E kills the adult whiteflies, aphids, and scales, the population increase of scales, and mealybugs.

How should ENSTAR 5E IGR be used?

A preventative spray schedule along with good management practices (such as keeping doors closed and not introducing heavily infested plants into the greenhouses) will provide effective insect control. In the case of heavy adult populations, ENSTAR 5E should be used at the higher rate to quickly reduce the insect populations.

TAKE TIME



OBSERVE LABEL
DIRECTIONS

BOTTLE LABEL

◀ COLLAR
ACCEPTED
APR 25 1978
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1/1 McFarland