

INTRODUCTION

Methoprene, the active ingredient in APEX 5E insect growth regulator (IGR), is a chemical analog of a natural insect hormone. Unlike traditional pesticides, the presence of methoprene does not result in immediate insect kill. It interferes with the normal process of insect development. APEX 5E will prevent the emergence of adult sciarid flies when incorporated into the mushroom growing medium. Under most conditions fly control is achieved without adverse effects on mycelium growth or mushroom yield. Pupae and adults present at the time of application will not be affected. If high adult populations are present initially, use of a conventional adulticide will ensure the best over-all results. After treatment with APEX 5E larvae will continue to develop to the pupal stage where they will die. Estimation of adult fly populations should be no earlier than two weeks after treatment to assess the full benefit of APEX 5E.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
CAUTION**

Avoid contact with eyes. In case of contact immediately flush eyes with plenty of water. Get medical attention if irritation persists.

STORAGE AND DISPOSAL

Store in a cool place. Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Triple rinse and offer for recycling, reconditioning, or disposal in approved landfill or bury in safe place.

Pesticide, spray mixture, or rinsate that cannot be used or chemically reprocessed should be disposed of according to procedures approved by Federal, State or Local disposal authorities.

Reseal container and offer for recycling, reconditioning or bury in a safe place.

Consult Federal, State, or Local disposal authorities for approved alternative procedures.

WARRANTY AND CONDITIONS OF SALE

Zoecon Corporation warrants that this product conforms to the chemical description on the label and is suitable for the control of sciarid flies as described thereon. Neither Zoecon Corporation nor its sales representatives make any other warranty, express or implied.

Label No. 980

ACCEPTED
OCT 09 1980
This product has been found to comply with the requirements of the Federal Insecticide, Fungicide, and Rodenticide Act and is registered under EPA Reg. No. 20954-84

ZOECON
APEX 5 E

**AN INSECT GROWTH REGULATOR TO
PREVENT THE EMERGENCE OF ADULT
SCIARID FLIES IN MUSHROOM CULTURE**

ACTIVE INGREDIENTS

Methoprene (Isopropyl (E)-11-Methoxy-3,7,11-trimethyl-2,4-dodecanoate	65.7%
Xylene Range Aromatic Solvents	20.4%
INERT INGREDIENTS	13.9%
TOTAL	100.0%

This product contains 5 lbs/gallon (600 grams/liter) methoprene active ingredient.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

(See side panel for additional precautionary statements).

NET CONTENTS:

ZOECON CORPORATION
Palo Alto, California 94304

U.S. Patents 3,904,622 & 3,912,815
EPA Reg. No. 20954-84

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EPA Est. No. 20954-CA-1

ZOECON

APEX™ 5 E

**INSECT GROWTH REGULATOR TO
PREVENT THE EMERGENCE OF ADULT
HOUSEFLIES IN MUSHROOM CULTURE**

INGREDIENTS:

1-(1-Isopropyl-4-11-Methoxy-3,7,11-trimethyl-2,4-dodecadienoate).....	65.7%
Large Aromatic Solvents.....	20.4%
INERTS.....	13.9%
TOTAL	100.0%

Contains 5 lbs./gallon (600 grams/liter) methoprene active

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

(See side panel for additional precautionary statements)

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Palo Alto, California 94304

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EPA REG. NO. 10994-CA-1

**DIRECTIONS FOR USE
GENERAL CLASSIFICATION**

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

METHOD, RATE, AND TIMING OF APPLICATION

For best results, APEX should be incorporated in the mushroom growing medium.

FOLLOW EITHER METHOD A OR METHOD B APPLICATION INSTRUCTIONS

A Incorporate in casing at time of casing.

Apply APEX 5E at the rate of 5-1/2 fluid oz. per 1000 sq. ft. Make application evenly and mechanically mix into casing material prior to the casing operation, or drench evenly onto the surface of the casing immediately after placement.

B Incorporate in compost at time of spawning and in casing at time of placement of casing layer.

In Compost: Apply APEX 5E at the rate of 5-1/2 fluid oz. per 1000 sq. ft. in adequate water for even distribution. Spray or sprinkle on the surface of compost at the time of spawning and thoroughly incorporate using a spawning machine or other suitable mechanical means.

In Casing: Apply APEX 5E at the rate of 2-1/4 fluid oz. per 1000 sq. ft. Make application evenly and mechanically mix into casing material prior to the casing operation, or drench evenly onto the surface of the casing immediately after setting it in place.

MIXING AND HANDLING INSTRUCTIONS

1. Add the measured amount of APEX 5E to a spray tank partially filled with water; mix and complete filling with recommended quantity of water.
2. Use diluted spray solution within 48 hours of mixing. Agitate before each use.

EFFECT ON MUSHROOMS

In most cases treatment with APEX 5E has a beneficial effect on mushroom yield through control of damaging sciarid fly larvae. Due to the widely differing practices followed in mushroom culture, the user should conduct test treatments on small plots to determine that reduced crop yields will not occur under his own cultural conditions.

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