

GROUP

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INSECTICIDE

# APEX™ EC

Insect Growth Regulator to reduce  
the emergence of adult sciarid flies  
in mushroom culture

COMMERCIAL  
GUARANTEE:

Methoprene.....67%

REGISTRATION NO. 17247  
PEST CONTROL PRODUCTS ACT

KEEP OUT OF REACH OF CHILDREN  
READ THE LABEL BEFORE USING

NET CONTENTS: 2.5 LITRES

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## INTRODUCTION

Methoprene, the active ingredient in APEX 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 will reduce the emergence of adult sciarid flies when incorporated into the mushroom growing medium.

Phytotoxicity or reduced mycelium growth or mushroom yield is not shown at use rates. For best results, this product can be used in a pest management program in conjunction with conventional adulticides and sanitation procedures. If high populations are initially present, use of an adulticide will reduce numbers before APEX use becomes effective. Pupae and adults present at the time of application will not be affected. After treatment with APEX, larvae will continue to develop to the pupal stage, where they will die. Reduction in adult fly population results about two weeks after treatment.

**EFFECT ON MUSHROOMS:** In most cases experiments with APEX indicate 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.

**METHODS, RATE AND TIMING OF APPLICATION:** For best results APEX should be incorporated in the mushroom growing medium. Follow either Method A, Method B or Method C application instructions.

A. Incorporate in casing at time of casing.

Apply APEX at the rate of 175 mL/100 m<sup>2</sup>. Make applications 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 at the rate of 175 mL/100 m<sup>2</sup> 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 at the rate of 70 mL/100 m<sup>2</sup>. 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.

C. Compost surface drench before casing and in casing at time of placement of casing layer.

For those crops that have a 16-day or longer spawn run, a split application can be used.

First Application, on compost: Apply APEX 12-13 days after spawning. Drench APEX evenly on the surface at the rate of 88 mL/100 m<sup>2</sup> in adequate water for even distribution.

Second Application, in casing: Apply APEX at the rate of 88 mL/100 m<sup>2</sup>. 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 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.
3. Wear impermeable gloves while applying.

**PRECAUTIONS AND FIRST AID: KEEP OUT OF REACH OF CHILDREN.** If in eyes, immediately flush eyes with plenty of water. Seek medical attention if irritation persists. If on skin, wash with water and soap. Remove contaminated clothing and launder before re-use. If ingested, seek medical attention or call a poison control centre immediately and have material removed by gastric lavage. **DO NOT INDUCE VOMITING.** Product contains hydrocarbon solvent and presents an aspiration hazard. If inhaled, remove patient to fresh air. Provide artificial respiration, if indicated. See a physician if cough or other respiratory symptoms develop.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact 1-866-375-4648 or [www.cropro.org/](http://www.cropro.org/)

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

**STORAGE:** Store in a cool place. Do not contaminate water, food or feed by storage or disposal.

**DISPOSAL:**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER:** This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

**NOTICE TO BUYER:** Seller's guarantee shall be limited to the terms set out in the label, and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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