

2013-06-25

2012-4592

APEX™ EC

Emulsifiable concentrate

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

COMMERCIAL

GUARANTEE (S)-Methoprene 33.6%

REGISTRATION NO. 27473 PEST CONTROL PRODUCTS ACT

KEEP OUT OF REACH OF CHILDREN

READ THE LABEL BEFORE USING

WARNING – SKIN IRRITANT

NET CONTENTS: 2.5 Litres

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INTRODUCTION (S)-Methoprene, the active ingredient in APEX EC insect growth regulator (IGR) is a chemical analog of a natural insect hormone. Unlike traditional pesticides, the presence of (S)-Methoprene does not result in immediate insect kill. It interferes with the normal process of insect development. APEX EC 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 EC use becomes effective. Pupae and adults present at the time of application will not be affected. After treatment with APEX EC, 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 EC 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.

DIRECTIONS FOR USE

METHODS, RATE AND TIMING OF APPLICATION: For best results APEX EC 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 EC at the rate of 175 mL/100 m². 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 EC at the rate of 175 mL/100 m² 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 EC at the rate of 70 mL/100 m². 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 EC 12-13 days after spawning. Drench APEX EC evenly on the surface at the rate of 88 mL/100 m² in adequate water for even distribution.

Second Application, in casing: Apply APEX EC at the rate of 88 mL/100 m². 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

Add the measured amount of APEX EC to a spray tank partially filled with water, mix and complete filling with recommended quantity of water.

Use diluted spray solution within 48 hours of mixing. Agitate before each use.

Wear impermeable gloves while applying. DO NOT allow effluent or runoff from greenhouses or mushroom houses containing this product to enter lakes, streams, ponds or other waters.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Wear chemical resistant gloves when handling and/or applying this product.

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., visit the CropLife Canada's web site at: www.croplife.ca

ENVIRONMENTAL HAZARDS: TOXIC to aquatic organisms.

FIRST AID:

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth 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. Call a poison control centre or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take the container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Product contains hydrocarbon solvent and presents an aspiration hazard. If ingested, have material removed by gastric lavage. Treat symptomatically.

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

DISPOSAL:

Triple or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instruction for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. 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 pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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