

PM-90

Reg # 2724-452

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Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 2-28-95



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number
212444

Application for Pesticide - Section I

1. Company/Product Number Sandoz Agro, Inc./2724-452	2. EPA Product Manager Phil Hutton	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Sandoz Agro, Inc./APEX 5E	PM# 90	
5. Name and Address of Applicant (Include ZIP Code) Sandoz Agro, Inc. 1300 E. Touhy Ave. Des Plaines, IL 60018	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Check if this is a new address

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

APEX 5E is an Insect Growth Regulator listed in the Federal Register of May 3, 1995 as one of the pesticides which qualifies for reduced restricted entry intervals. This notification reduces the REI from 12 hours to 4 hours. No other changes were made to the label with the exception that the company name has been updated.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
* Certification must be submitted	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	<input checked="" type="checkbox"/> Plastic	
				<input checked="" type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 - 5 liters		5. Location of Label Directions <input checked="" type="checkbox"/> on label	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Steven R. Spaulding	Title Sr. Registration Specialist	Telephone No. (include Area Code) (708) 390-3007
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Sr. Registration Specialist	
4. Typed Name Steven R. Spaulding	5. Date December 1, 1995	

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APEX® 5E

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

ACTIVE INGREDIENT:

Methoprene [Isopropyl (E,E)-11-Methoxy-
3,7,11-trimethyl-2,4-dodecadienoate]..... 65.7%

INERT INGREDIENTS:.....34.3%

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:

Sandoz Agro, Inc.
1300 E. Touhy Ave.
Des Plaines, IL. 60018

EPA Reg. #2724-452

EPA Est. #2724-TX-1

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 (& DOMESTIC ANIMALS) CAUTION: Avoid contact with eyes. In case of contact, immediately flush eyes with plenty of water. Get medical attention if irritation persists. **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 selection chart. **Applicators and other handlers must wear:** long-sleeved shirt and long pants, shoes plus socks, chemical resistant gloves, such as butyl rubber, nitrile rubber, barrier laminate or viton. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

DIRECTIONS FOR USE - GENERAL CLASSIFICATION: It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product through any type of irrigation system.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical-resistant gloves, such as butyl rubber or nitrile rubber or barrier laminate or viton; shoes plus socks. Exception: if the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

METHOD, 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 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.

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 5E 12-13 days after spawning. Drench APEX evenly on the surface at the rate of 2 3/4 fl. oz. per 1000 sq.ft. in adequate water for even distribution.

Second Application, in casing: Apply APEX 5E at the rate of 2 3/4 fl. 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.

STORAGE AND DISPOSAL: **STORAGE:** Store in a cool place. Pesticides must be stored away from food, feed or other products. Do not contaminate water, food or feed by storage or disposal. In case of spill or leak, soak up with soil or other absorbent material. **DISPOSAL:** Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other state and local procedures. Pesticide wastes can be toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.