

71532-26

6/18/2009

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

EPA Reg. Number:
71532-26

Date of Issuance:
06/18/09

Term of Issuance:
Conditional

Name of Pesticide Product:
Esfenvalerate - PCO

NOTICE OF PESTICIDE:
 Registration
 Reregistration
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

LG Life Sciences, Ltd.
% Ag-Chem Consulting
Pesticide Science and Registration
12208 Quinque Lane
Clifton, VA 20124

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.
2. Make the following labeling changes before you release the product for shipment:
 - a. Revise the EPA Registration Number to read: "EPA Registration No. 71532-26"

Signature of Approving Official:

JR

Richard Gebken
Product Manager (RM 10)
Insecticide Branch
Registration Division (MC 7505P)

Date:

June 18, 2009

- b. Delete the statement "Contains petroleum distillates", since this product composition lacks this component".
- c. Modify the labeling to correct the dilution rate. (1 ounce of 3.48% esfenvalerate per 1 gallon diluent is greater than 1 ounce of 8.4% esfenvalerate formulation per 2.5 gallons diluent.). See enclosed DER and the table below for correct dilution rates:

Original Label (3.48% Esfenvalerate)			Revised Label (8.4% Esfenvalerate)			
Concentrate	Diluent	Final Concentration	Concentrate	Diluent	Final Concentration	Modify
1 fl. oz.	1 gallon	0.027%	1 fl. oz.	2.4 gallon	0.027%	Yes
2 fl. oz.	1 gallon	0.054%	2 fl. oz.	2.4 gallon	0.054%	Yes
1/6 fl. oz.	3 gallons	0.0015%	1/6 fl. oz.	7 gallons	0.0015%	No
1/3 fl. oz.	6 gallons	0.0015%	1/3 fl. oz.	14 gallons	0.0015%	No
2/3 fl. oz.	12 gallons	0.0015%	2/3 fl. oz.	21 gallons	0.0015%	No

- d. Revise the statement "*Ixodes dammini* tick (deer tick), which transmits Lyme disease, on contact" to read "*Ixodes scapularis*, which may transmit Lyme disease".
- e. Revise the phrases "should be" and "including, but not limited to" to read "**must be**" and "**including or consisting of**", respectively.
3. Submit final printed label bearing the above stated revisions prior to releasing this product for sale.

Please note that if the cited (previously reviewed) data in support of the label claims for this product were subjected to the present standards used to evaluate product performance data, many of the pests will not be supported. Presumably, this discrepancy will be addressed for esfenvalerate products as a whole during the Registration Review process.

Also note that the labeling for this product was approved with the understanding that it is consistent with the labeling for the me-too products (EPA Reg. Nos. 71532-21 and 1021-1641). If you fail to comply with the above stated conditions, this registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes your acceptance of these conditions.

See enclosed stamped label for your records. If you have any questions concerning this action, please contact Dr. B. A. Akinlosotu at (703) 605-0653.

Enclosure

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Esfenvalerate - PCO

Water or Oil Dilutable

CONTROLS NUMEROUS PESTS IN AND AROUND STRUCTURES RECOMMENDED FOR COMMERCIAL AND INDUSTRIAL USE

[] indicates alternate or optional wording.

For Use In and Around the Home and Food and Non-Food Areas of: Schools, Warehouses, Office Buildings, Apartment Buildings, Theatres, Hotels, Motels, Kennels, Food Processing Plants, Food Service Establishments, Truck Trailers, Railroad Cars, and Food Manufacturing and Warehousing Establishments. Also for Use on Lawns to Kill Fleas and Ticks.

[Guaranteed to work or your money back] [Kills pests on indoor & outdoor surfaces.] [Mixes with water.] [Makes up to __ Gallons.]

ACTIVE INGREDIENT:

Esfenvalerate (CAS #66230-04-4).....	8.4%
INERT INGREDIENTS.....	91.6%
TOTAL.....	100.0%

*Contains petroleum distillates

KEEP OUT OF REACH OF CHILDREN

WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it you in detail.)

FIRST AID	
IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
NOTE TO PHYSICIAN	
If on skin, after drying apply vitamin E cream or oil if available. If not available, apply vegetable oil liberally over painful areas. The oil or cream may be used repeatedly until relief is achieved.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	

Net Contents _____
 Manufactured by:
 LG Life Sciences, Ltd.
 910 Sylvan Avenue
 Englewood Cliffs, NJ 07632

ACCEPTED
 With COMMENTS
 In EPA Letter Dated:
JUN 18 2009
 Under the Federal Insecticide, Fungicide
 and Rodenticide Act, As amended, for the
 pesticide Registered under EPA Reg. No:

EPA Reg. No. 71532-X

EPA Est. No. 71532-210

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING. May be fatal if swallowed. Harmful if absorbed through skin. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

ENVIRONMENTAL HAZARDS. This product is toxic to fish, birds and other wildlife. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate ornamental fish ponds. Do not contaminate water when disposing of equipment wash waters or rinsate. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

DIRECTIONS FOR USE

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

Esfenvalerate - PCO can be mixed with an EPA-registered Insect Growth Regulator (IGR) or pyrethrin-containing product in areas where these products are allowed to be sprayed. Please check product-specific label directions before using. Do not tank mix this product with dichlorvos-(DDVP)-containing products.

Do not apply directly to food. Cover or remove all food and food-processing equipment during application. After spraying in meat packing plants, bakeries, and other food processing plants, wash all equipment, benches, shelving, etc. where exposed food will be handled with an effective cleaning compound, and then rinse with potable water. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use following treatment. Cover exposed food. Do not spray plants used for food or feed.

Remove pets and birds and cover fish aquariums before spraying.

Do not allow children or pets to contact treated surfaces until spray has dried.

Do not apply this product in occupied patient rooms or in any rooms/areas while occupied by patients, the elderly or infirm. Do not apply to classrooms while in use. Do not apply in institutions (including libraries, sports facilities, etc.) in the immediate area where occupants are present.

SHAKE WELL BEFORE USE

FOR INDOOR PESTS:

GENERAL: Use Esfenvalerate - PCO insecticide to control the pests indicated in the listed areas as a contact spray by mixing either one (1) or two (2) fluid ounces of concentrate in 2.5 gallons of water or oil and mix thoroughly before use. One (1) ounce of Esfenvalerate - PCO per 2.5 gallons of water or oil will make a spray containing 0.027% active ingredient, two (2) ounces per 2.5 gallons will make a spray containing 0.05% active ingredient. For initial clean out of heavy infestations use two (2) ounces of concentrate per 2.5 gallons of spray; for maintenance control or light infestations use one (1) ounce of concentrate per 2.5 gallons. When using oil as the diluent, an odorless light petroleum hydrocarbon as defined by CFR Title 21, Sec. 172.884 should be used for all food areas and food related applications. For all applications of contact sprays, use at the rate of one (1) gallon (diluted spray) per 1,000 square feet of surface area.

Application Only Within Food and Non-Food Areas of Food Service and Handling Establishments (Places Other Than Private Residences) including, but not limited to: Restaurants, Grocery Stores, Bakeries, Food Manufacturing and Processing Establishments, and Food Warehousing Establishments. Do not treat establishments where livestock feed is present.

Food areas include areas for receiving, storage, packing, canning, bottling, wrapping, boxing, preparing, edible waste storage, enclosed processing systems, mills, and dairies. Serving areas are places where prepared foods are served, such as dining rooms, but excluding areas where foods may be prepared or held. Non-food areas include garbage rooms, lavatories, floor drains to sewers, entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage after canning or bottling.

As a Surface Spray:

To Kill the Accessible Stages of Granary Insects, Rice Weevils, Confused Flour Beetles, Rust Red Flour Beetles, Saw-Toothed Grain Beetles, Cadelles, Meal Moth Larvae and Adults, Cigarette Beetles, Drug Store Beetles and Granary

Weevils: Apply as a coarse wet spray to surfaces where these pests are normally found, such as floors and baseboards and around walls, benches, and pieces of equipment. Use at a dosage of one (1) gallon of spray per 1,000 square feet. Pay particular attention to cracks, crevices, and similar protected locations in floors and walls. Spray thoroughly around and into floor drains, non-food conveyors, and other areas where granary insects may be found. Do not apply when food processing facility is in operation or foods are exposed. Do not apply this spray to surfaces or utensils that may come into contact with food; excessive residues in food may result.

Repeat Application as needed, but do not exceed more than one (1) application every fourteen (14) days.

To Kill Ants, Centipedes, Cockroaches, Crickets, Earwigs, Millipedes, Psocids, Scorpions, Silverfish, Sowbuqs, Spiders, and Waterbugs: Apply this spray with a sprayer that produces coarse, wetting droplets into all cracks and crevices in woodwork

and floors, underneath sinks, areas behind pipes, and in all places where these insects shelter. Use a dosage of one (1) gallon of spray per 1,000 square feet. Contact as many

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insects as possible with direct spray. Repeat applications as needed, but do not exceed more than one (1) application every seven (7) days in restaurants and similar food service establishments or more than one (1) application every fourteen (14) days in all types of food handling establishments.

FOR PREMISE PESTS:

Application Within Residential and Non-Residential Buildings Including Homes, Apartment Buildings, Kennels, and Non-Food Areas of Industrial, Institutional, and Commercial Buildings, such as Hospitals, Hotels, Warehouses, Truck Trailers, Railroad Cars, Theatres, Office Buildings, and Schools.

GENERAL: Apply as a coarse wet spray to thoroughly treat hiding places, such as cracks, crevices, and moist areas around pipes, under refrigerators, and along baseboards to control pests listed below. Use at the rate of one (1) gallon of spray mixture per 1,000 square feet. Spray directly on insects when possible. Do not permit humans or pets to contact treated surfaces until the spray has dried. Repeat as necessary. Do not treat establishments where livestock feed is present.

To Kill Ants, Centipedes, Cockroaches, Crickets, Earwigs, Millipedes, Psocids, Scorpions, Silverfish, Sowbugs, Spiders, and Waterbugs: Spray areas where these pests are found or may hide, including dark corners of rooms and closets; cracks and crevices in walls; along baseboards and door and window frames; behind and beneath sinks, stoves, refrigerators and cabinets; and around garbage cans, plumbing and other utility installations. Pests driven out of hiding places should be sprayed directly. For Ants, apply to ant trails, around doors and windows, and wherever these pests may find entrance. Repeat as necessary.

To Kill Brown Dog Ticks and Fleas: For Control of Brown Dog Ticks, thoroughly apply as a spot treatment to infested areas such as pet beds and resting quarters; nearby cracks and crevices; along and behind baseboards, window and door frames; and localized areas of floor and floor coverings where these pests may be present. For control of Fleas, thoroughly apply a fine particle broadcast spray using the one (1) ounce per gallon of water dilution for infested rugs, carpets, and pet resting areas. Prior to treatment, aquariums and fish bowls should be covered and birds, such as canaries, removed from the area. Do not permit humans or pets to contact treated surfaces until the spray has dried. Old bedding should be removed and replaced with clean, fresh bedding after treatment. Do Not Spray Pets With This Product. Treat dogs and cats with a product registered for use on animals.

To Kill Carpenter Ants: Apply two (2) ounces per 2.5 gallons of water as a coarse spray around doors, door frames, windows, and other areas where these ants enter the premises or hide. Spray into cracks and crevices and through openings or small newly drilled holes into wall voids where these ants or their nests are present.

To Treat Voids in Equipment and Structures: To kill Ants (including Carpenter Ants), Centipedes, Cockroaches, Crickets, Earwigs, Psocids, Scorpions, Silverfish, Spiders, Waterbugs, and Insect Pests of Stored Food: To kill insects harboring in wall

voids and other inaccessible spaces in equipment and structures, use injection equipment designed for deep void ULV (Ultra Low Volume) applications. Follow the injection equipment manufacturer's recommendations for proper set up and air pressures. Place the applicator tip at or into the void space to be treated. For inaccessible voids, it may be necessary to drill an access hole(s). Inject product into the void space in short bursts, allowing the air pressure to push insecticide deep into the space. Avoid applying to the point of runoff or drip. Ventilate area thoroughly before re-entry. Do not reapply more than every fourteen (14) days.

FOR OUTDOOR PESTS:

GENERAL: Use Esfenvalerate - PCO at the rate of two (2) fluid ounces per one 2.5 gallons of water to control contact on Ants, Cockroaches, Crickets, Sowbugs, Spiders, and Ticks. Use at the rate of one (1) gallon per 1,000 square feet to outside surfaces of buildings, porches, patios, garages and other areas where these pests have been seen or are found. Do not spray in or near fish ponds or other bodies of water. Avoid soaking young or flowering plants.

Building Perimeter Treatment: To help prevent infestations of buildings by Ants, Crickets, Spiders, Centipedes, and Sowbugs (Pillbugs), treat a 12-18 inch band of soil or other substrate adjacent to buildings and the building foundation to a height of 2 to 3 feet where these pests are active and may find entrance. Use two (2) fluid ounces of concentrate per 2.5 gallons of water and apply as a coarse wet spray at the rate of one (1) gallon per 1,000 square feet.

TO KILL EXPOSED/SWARMING TERMITES: OUTDOORS ONLY. Use two (2) fluid ounces of Esfenvalerate - PCO per 2.5 gallons of water and apply as a coarse, wetting spray where swarming termites are seen emerging from wood piles, wooden fence posts, wooden structures, or from the ground. Swarming usually occurs in the spring or at other times when a termite colony becomes overcrowded and new reproductive termites with wings emerge and fly away to mate and establish new colonies. This treatment will control the sprayed termites and will not protect the structure from which the swarm is coming. Use only as a contact spray to kill emerging reproductive (winged) and worker termites emerging from infested wood.

TO KILL WOOD-DESTROYING PESTS: OUTDOORS ONLY. Carpenter Bees, Carpenter Ants, Old House Borers, Powder Post Beetles, Furniture Beetles, Round-Headed House Borers, and Deathwatch Beetles. Use two (2) fluid ounces of Esfenvalerate - PCO per 2.5 gallons of water and apply as a coarse, wetting spray to exposed pests and to the damaged areas of wood, spraying into galleries or tunnels in the exposed wood. Also spray around doors, door frames, windows, and other areas where these pests may enter the house or hide. Spray into cracks and crevices and, if necessary, drill small holes and spray into inaccessible wooden structural voids where these pests are suspected.

LAWN FLEA AND TICK CONTROL:

To Kill Fleas and Ticks Harboring in Lawns and Backyards: For power sprayers, dilute and apply as shown in the table below. (Use this concentrate in a hose-end sprayer. Place required amount of concentrate in sprayer jar (see chart below) and fill with water to the recommended level. Mix well. Attach to sprayer and spray as recommended.) For best results, lawn should be mowed one to two (1 - 2) days before spraying. Spray using a slow, even sweeping motion, being sure to cover the entire lawn surface where the pets will normally frequent. Spray under ornamentals and trees, but avoid soaking young or flowering plants. Repeat treatments may be necessary at 7 to 14 day intervals. Esfenvalerate - PCO kills the Ixodes dammini tick (deer tick), which transmits Lyme disease, on contact. Esfenvalerate - PCO also kills foraging fire ants upon direct contact. A registered fire ant mound treatment should also be used in conjunction with this product.

Keep pets and children out of the treated area until after the spray has dried. Do Not Spray Directly On Animals. Treat dogs and cats and their kennel or bedding area with a registered flea control product in conjunction with this application.

Amount of Product to Use Fluid Ounces	Amount of Water to Use	Area to be Treated
1/6 Fluid Ounce	7 gallons	500 sq. ft. (50' X 10')
1/3 Fluid Ounce	14 gallons	1,000 sq. ft. (50' X 20')
2/3 Fluid Ounce	21 gallons	2,000 sq. ft. (50' X 40')

OUTDOOR CONTROL OF ASIAN COCKROACHES:

To control outdoor infestations of Asian cockroaches: Dilute four (4) teaspoons of Esfenvalerate - PCO in 30 gallons of water to treat 5,000 sq. ft. Repeat as needed. Keep children and pets off treated areas for 24 hours or until the grass has completely dried.

STORAGE AND DISPOSAL

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

STORAGE: Store in a warm, dry place. Keep container closed.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. In case of spill or leak, soak up with sand, earth or synthetic absorbents. Do not use alkaline absorbents or clean area of spill with alkaline detergents.

DISPOSAL: Do not reuse empty container. Wrap container in several layers of newspaper and discard in trash.

Conditions of Sale and Limitation of Warranty and Liability

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying and using this product. If the terms are not

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acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of LG Life Sciences, Ltd. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold LG Life Sciences, Ltd. and Seller harmless for any claims relating to such factors.

LG Life Sciences, Ltd. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or LG Life Sciences, Ltd. and Buyer and User assume the risk of any such use. To the extent permitted by law, LG Life Sciences, Ltd. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the fullest extent permitted by law LG Life Sciences, Ltd. or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF LG LIFE SCIENCES, LTD. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF LG LIFE SCIENCES, LTD. OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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