



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

EPA Reg. Number:
71532-17

Date of Issuance:
NOV 8 2005

Term of Issuance:
Conditional

Name of Pesticide Product:
LG Permethrin 0.5% Insect
Granules

NOTICE OF PESTICIDE:

Registration
 Reregistration

(Under FIFRA as amended)

Name and Address of Registrant (include ZIP Code):

LG Life Sciences, Ltd.
C/o Biologic Inc.
115 Obtuse Hill
Brookfield, Connecticut 06804

Note: Changes in labeling, differing in substance from that accepted in connection with registration, or changes in formulation submitted to and accepted by the Registration Division prior to use of the label in commerce, in any correspondence, must be approved by the EPA Registration Division.

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), since you agreed in your letter dated October 27, 2004 that:

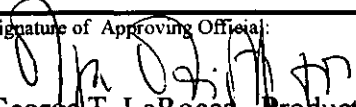
1. You will submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. You will make the following label changes before you release the product for shipment:
 - a) Revise the EPA Registration Number to read "EPA Reg. No. 71532-17."
 - b) Add the following to the First Aid statements:
 - *"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 a 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 center or doctor for treatment advice."*

- c) Immediately below the First Aid Statements and clearly distinguished from it, add: *"Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment. You may also contact 1-800-xxx-xxxx ..."* Please refer to the boxed format example provided with PR Notice 2001-1.
- d) Replace the last two sentences of the Precautionary statements with: *"Harmful if absorbed through skin or inhaled. Avoid contact with eyes, skin, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse"*.
- e) Delete *"in treated areas"* from the end of the 3rd sentence under Environmental Hazards (*Drift and runoff... to aquatic organisms.*)
- f) Relocate the storage and disposal instructions to the end of the Direction for Use section. This placement eliminates the break between the heading "Directions for Use" and the body of the use directions.
- g) Delete long-sleeved shirt and long pants from item 1 under PPE required for early entry.
- h) Replace "Tocks" with "Ticks" in the use instruction column on page 5.
- i) Under Conditions of Sale", next to last paragraph, Revise *"In no event shall LG Life Sciences..."* with *"To the fullest extent permitted by law, LG Life Sciences shall not be liable..."* or *"It is LG Sciences intention that ..."*.
- j) Storage stability (830.6317) and corrosion characteristics (830.6320) data are outstanding and must be submitted to satisfy the requirements of 40CFR. 158.190.

3. Please submit three (3) copies of your final printed labeling before releasing the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing amended labeling constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The Confidential Statement of Formula (CSF) dated 27 June 2005 is acceptable. A copy of the CSF has been placed in the file for the subject product. A copy of the product chemistry review Memorandum is enclosed for your records.

If you have any questions regarding this action, please contact Olga Odiott of my team at (703)308-9369.

Signature of Approving Official:  George T. LaRocca, Product Manager (13) Insecticide Branch/Registration Division (7505C)	Date: NOV 8 2005
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RESTRICTED USE PESTICIDE
 Toxic to Fish and Aquatic Organisms
 For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

LG Permethrin 0.5% Insect Granules

A granular insecticide formulation for the control of Ants (including Imported Fire Ants), Mole Crickets and other insect pests on lawns in landscaped areas and perimeters around residential, institutional, public, commercial and industrial buildings, parks, recreational areas, golf courses, sod farms, and athletic fields.

Active Ingredient:
 *Permethrin.....0.5%
 Other Ingredients:.....99.5%
 Total100.0%

*(3-phenoxyphenyl) methyl (+/-) cis/trans 3-(2,2-dichloroethenyl) 2,2 dimethyl cyclopropanecarboxylate
 Cis/Trans ratio: Maximum 55% (+/-) cis and minimum 45% (+/-) trans.

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID	
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 center or doctor for treatment advice.

EPA Reg. No. 71532-XX
 EPA Est. No. XXXXX-XX-XXX

NET CONTENTS: XX lbs.

Manufactured by:
 LG Life Sciences, Ltd.
 20, Yoido-dong
 Youngdungpo-gu
 Seoul, Korea

ACCEPTED
 with **COMMENTS**
 in EPA Letter Dated
 NOV 8 2005
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 as amended, for the pesticide
 registered under EPA Reg. No.
 71532-17

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION. Causes moderate eye irritation. Avoid contact with eyes and clothing. Wash thoroughly with soap and water after handling.

The following Personal Protective Equipment (PPE) requirements apply to sod farm use only.

Applicators and other handlers must wear:

- 1. Long-sleeved shirt and long pants
- 2. Waterproof gloves
- 3. Shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining PPE. If not such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- 1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- 2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in treated areas. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from treated areas.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

Storage: Store product in its original container in a cool, dry locked place out of the reach of children.

Disposal: Completely empty bag into application equipment. Do not reuse empty container. Wrap bag and discard in trash.

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.

Do not apply by air. Do not apply with 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish ponds.

AGRICULTURAL USE REQUIRMENTS

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 and restricted-entry intervals. 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 12 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:

- 1. Coveralls over long-sleeved shirt and long pants
- 2. Water proof gloves
- 3. Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep children, pets, and other unprotected persons out of treated areas until treated area is dry.

LAWN GRASS, TURF AND PERIMETER APPLICATIONS

(including Golf Courses and Sod Farms)

LAWN GRASS AND TURF APPLICATION

Application Rates

The application rates listed in the following table will provide control of the listed pests under typical conditions. If the applicator decides a higher dosage is needed to control the listed pests, LG Permethrin 0.5% Insect Granules may be applied at up to 1.0 lb. a.i./A.

Broadcast Application Instructions

Apply with suitable broadcast application equipment to ensure uniform coverage over the treated area. For best results, apply ½ inch of water through sprinkler irrigation immediately after application to activate the granules.

Application Rate of LG Permethrin 0.5%	Pest	Additional Use Instructions
50 - 100 lbs. per acre or 1.15 - 2.3 lbs. per 1,000 sq. ft. (0.25 - 0.50 lbs. a.i. per acre)	Armyworms Leafhoppers Mealybugs	Follow broadcast application instructions.
	Annual Bluegrass Weevil (Hyperodes) (Adult)	Follow broadcast application instructions. Applications should be timed to control adult weevils as they leave their over-wintering sites and move into grass areas. This movement generally begins when Forsythia is in full bloom and concludes when flowering dogwood is in full bloom. Consult your State Cooperative Extension Service for more specific information.
	Billbugs (Adult)	Follow broadcast application instructions. Applications should be made when adult billbugs are first observed during April and May. Degree-day models have been developed to optimize application timing. Consult your State Cooperative Extension Service for information specific to your region. In temperate regions, spring applications targeting billbug adults will also provide control of over-wintering chinch bugs.
	Black Turfgrass Ataenius (Adult)	Follow broadcast application instructions. Applications should be made during May and July to control the first and second generation of black turfgrass ataenius adults, respectively. The May application should be timed to coincide with the full bloom stage of Vanhoutte spirea (<i>Spiraea vanhouttei</i>) and horse chestnut (<i>Aesculus hippocastanum</i>). The July application should be timed to coincide with the blooming of Rose of Sharon (<i>Hibiscus syriacus</i>).
100 - 200 lbs. per acre or 2.3 - 4.6 lbs. per 1,000 sq. ft. (0.5 - 1.0 lbs. a.i. per acre)	Ants Centipedes Cutworms Fleas (Adults) Millipedes Sod Webworms	Follow broadcast application instructions.
	Chinch Bugs	Follow broadcast application instructions. Chinch bugs infest the base of grass plants and are often found in the thatch layer. For best control, apply ½ inch of water through sprinkler irrigation immediately after application to activate the granules. Chinch bugs can be difficult pests to control in grasses. Use higher application rates if necessary to control populations of nymphs and adults during the summer.
	Fleas (Larvae)	Follow broadcast application instructions. Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. For best control, apply ½ inch of water through sprinkler irrigation immediately after application to activate the granules.
	Imported Fire Ants (Adult)	Follow broadcast application instructions. For best control, combine broadcast applications that control foraging workers and newly mated fly-in queens, with mound treatments that will eliminate existing colonies. If the soil is not moist, irrigate before application.
	Imported Fire Ants (Mounds)	Mound Treatment: Apply ½ to 1 cup of LG Permethrin 0.5% Insect Granules per mound covering an area one foot around the mound and then drench the mound with 1 to 2 gallons of water. The mound should be drenched with enough force to break its apex and allow the insecticide to flow into the ant tunnels. For best results, apply in cool weather (65 to 80° F) or in early morning or late evening hours. Treat new mounds as they appear.

<p>100 - 200 lbs. per acre</p> <p>or</p> <p>2.3 - 4.6 lbs. per 1,000 sq. ft.</p> <p>(0.5 - 1.0 lbs. a.i. per acre)</p>	<p>Mole Crickets (Adult)</p>	<p>Follow broadcast application instructions. Adult mole crickets are difficult to control because they are very active and continuously invade grassy areas. For best control, applications should be made as late in the day as possible and should be watered in with up to ½ inch of water immediately after treatment. If the soil is not moist, it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized. Grass areas that receive pressure from adult mole crickets should be treated at peak egg hatch to ensure optimum control of subsequent nymph populations (see below).</p>
	<p>Mole Crickets (Nymph)</p>	<p>Follow broadcast application instructions. For best control, grass areas that received intense adult mole cricket activity should be treated immediately prior to peak egg hatch. Optimal control is achieved at this time because young nymphs are more susceptible to insecticides and they are located near the soil surface where the insecticide is most concentrated. Control of larger, more damaging nymphs later in the year may require both higher application rates and more frequent applications to maintain acceptable control. To ensure optimal control, applications should be made as late in the day as possible and should be watered in with up to ½ inch of water immediately after treatment. If the soil is not moist, it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized.</p>
	<p>Ticks</p>	<p>Do not make spot applications. Follow broadcast application instructions. Treat the entire area where exposure to ticks may occur. Use higher application rates when treating areas with dense ground cover or heavy leaf litter. Ticks may be reintroduced from surrounding areas on host animals. Retreat as necessary to maintain adequate control. Do not allow public use of treated areas during application.</p> <p>Deer ticks (<i>Ixodes sp.</i>) have a complicated life cycle that ranges over a two-year period and involves four life stages. Applications should be made in mid to late spring for optimal control of larvae and nymphs that reside in the soil and leaf litter.</p> <p>American dog ticks may be a considerable nuisance in suburban settings, particularly where homes are built on land that was previously field or forest. These ticks commonly congregate along paths or roadways where humans are likely to be encountered. Applications should be made as necessary from mid-spring to early fall to control American dog tick larvae, nymphs and adults.</p>
<p>Pillbugs Sowbugs</p>	<p>200 lbs. per acre</p> <p>or</p> <p>4.6 lbs. per 1,000 sq. ft.</p> <p>(1.0 lbs. a.i. per acre)</p>	<p>Follow broadcast application instructions.</p>

PERIMETER APPLICATIONS

Perimeter Application Instructions

Apply to ground area 5 to 10 feet wide around and adjacent to buildings.

Boundary Application Instructions

Apply to soil areas, ornamental gardens, pavement crevices, fencelines, planter areas, vegetation areas and mulch areas.

Application Rate	Pounds of LG Permethrin 0.5% Insect Granules for Perimeter Application								
	Lbs./1,000 sq. ft.	Band Width	Linear Distance (Feet) Around Structure						
100			150	200	250	300	400	500	
2.3	5 ft.	1.3 lbs.	1.9 lbs.	2.5 lbs.	3.0 lbs.	3.6 lbs.	4.8 lbs.	5.9 lbs.	11.7 lbs.
	10 ft.	3.0 lbs.	4.2 lbs.	5.3 lbs.	6.5 lbs.	7.6 lbs.	9.9 lbs.	12.2 lbs.	23.7 lbs.
3.0	5 ft.	1.7 lbs.	2.5 lbs.	3.3 lbs.	3.9 lbs.	4.7 lbs.	6.3 lbs.	7.7 lbs.	15.2 lbs.
	10 ft.	3.9 lbs.	5.4 lbs.	6.9 lbs.	8.5 lbs.	9.9 lbs.	12.9 lbs.	15.9 lbs.	30.9 lbs.
3.5	5 ft.	2.0 lbs.	2.9 lbs.	3.8 lbs.	4.5 lbs.	5.4 lbs.	7.2 lbs.	8.9 lbs.	17.5 lbs.
	10 ft.	4.5 lbs.	6.3 lbs.	8.0 lbs.	9.8 lbs.	11.4 lbs.	14.9 lbs.	18.3 lbs.	35.5 lbs.
4.6	5 ft.	2.6 lbs.	3.8 lbs.	5.0 lbs.	6.0 lbs.	7.2 lbs.	9.6 lbs.	11.8 lbs.	23.4 lbs.
	10 ft.	6.0 lbs.	8.4 lbs.	10.6 lbs.	13.0 lbs.	15.2 lbs.	19.8 lbs.	24.4 lbs.	47.4 lbs.

Note: The amounts of LG Permethrin 0.5% Insect Granules listed in the above table are based on the total area being treated. This area is determined by multiplying the linear distance by the bandwidth and then adding to that value the area of a circle whose radius is equal to the bandwidth (to account for the area treated at the four corners of a rectangular structure).

INDUSTRIAL NON-AGRICULTURAL APPLICATIONS

(including Industrial Sites, Parks, Ball Fields and Cemeteries)

Broadcast Applications: For the control of actively foraging ants (including Imported Fire Ants) broadcast uniformly 2.3 to 4.6 lbs. LG Permethrin 0.5% Insect Granules per 1,000 sq. ft. (0.5 to 1.0 lbs. a.i. per acre). For additional rate recommendations see the "Additional Use Instructions" in the table appearing in the **Lawn Grass and Turf Application** section of this label.

Pad Mounted Electrical Sites: To reduce or prevent ant mound building activity on electrical pads, uniformly distribute 1.0 to 1.5 Tablespoons (0.06 to 0.09 lbs.) of LG Permethrin 0.5% Insect Granules per 4 sq. ft. of mounting pad. Where existing transformers are completely or partially filled with soil excavated by resident ants, remove any excess fill and level the remaining soil prior to application.

Note: Electrical transformers appear more attractive to ants during the cooler months. For best results, treat in the fall or early spring.

SPREADER SETTINGS

Equipment	Ground Speed (mph)	100 Pounds per Acre		200 Pounds per Acre	
		Once Over	Twice Over	Once Over	Twice Over
HAND PUSH					
Lesco Rotary	3				
Scotts R-BA-1 Rotary	3				
Gandy Models 42, 36, 30, 24"	3				
Spyker (all models)	3				
EQUIPMENT DRAWN					
Gandy Models 42, 36, 30, 24"	4.5	Spreader Settings Available at Final Printing			
Gandy 6500 Series	4.5				
Gandy 10T Series	5.0				
Herd GT-77	4.0				
Herd GT-77	8.0				
Lely 2.3202.000.1	4.5				
Lely Model L-400	4.5				
Vicon PS402	4.5				
Vicon PS1002T	4.5				

Note: These recommended settings should be used as starting points when calibrating a spreader to achieve the desired application rate of LG Permethrin 0.5% Insect Granules. After calibration, the technician should regularly observe the amount of LG Permethrin 0.5% Insect Granules that is applied to a known area and make further settings adjustments as necessary to maintain the appropriate application rate. Spreader should be calibrated periodically to ensure equipment wear or other factors have not altered the flow rate. Calibration instructions are included in the Owners Manual that was provided by the equipment manufacturer at the time of purchase.

Resistance: If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and suspect that resistance is a reasonable cause, immediately consult your pest management advisor for the best alternative method of control for your area.

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 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.**

In no event shall LG Life Sciences, Ltd. or Seller 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.**

LG Life Sciences, Ltd. and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty of liability, which may not be modified except by written agreement signed by a duly authorized representative of LG Life Sciences, Ltd.