

71532-15

07/21/2005

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
1200 Pennsylvania Avenue, N.W.  
Washington, D.C. 20004

EPA Reg. Number:  
71532-15

Date of Issuance:  
JUL 21 2005

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration

Term of Issuance:  
Conditional

LG Permethrin 3.2 EC  
Agricultural  
Insecticide

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

LG Life Sciences, Ltd.  
20 Yoido-dong, Youngdungpo-gu  
Seoul 150 721 Korea

**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/reregistration of your product when the Agency requires all registrants of similar products to submit data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the labeling changes listed below before you release the product for shipment:

a. Add the phrase "EPA Registration No. 71532-15."

b. Replace the Hazards to Humans and Domestic Animals section with "Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist."

Signature of Approving Official:

Date:

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c. Replace "Have a person sip a glass of water if able to swallow" with "Do not give any liquid to the person" under IF Swallowed first aid.

d. Add the following to the User Safety Recommendations with "Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco."

e. We recommend adding after "Have the product container... or going for treatment." , "You may also contact 1-800-xxx-xxxx for emergency medical treatment information."

f. Delete "In No event shall LG Life Sciences, Ltd. or seller be liable for any incidental, consequential or special damages resulting from use or handling of this product." This statement is overly broad and implies buyer has no legal right to recover damages from manufacturer and is unacceptable under statutory and regulatory standards. we recommend revising it to read "To the fullest extent permitted by law LG Life Sciences, Ltd. or Seller shall not be liable for any ... etc." or " It is LG Life Sciences, Ltd., Inc intent that in no case shall LG Life Sciences, Ltd., Inc or Seller be liable... etc."

g. On page 7 revise the first sentence to read "With the exception of crops listed below do not rotate other crops within 60 days of last application."

3. Submit two (2) copies of your final printed labeling before you release 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 constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Enclosure

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**RESTRICTED USE PESTICIDE**

**Toxic to fish and aquatic organisms**

For retail sale to and use by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

**LG Permethrin 3.2 EC**  
**Agricultural Insecticide**

ACCEPTED  
with COMMENTS  
in EPA Letter Dated  
JUL 21 2005  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
71532-15

Active Ingredient:	
*Permethrin**	38.0%
Other Ingredients:***	62.0%
	100.0%

\*(3-Phenoxyphenyl)methyl (+) 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate

\*\*cis/trans ratio: Max. 55% (+) cis and min. 45% (+) trans

\*\*\*Contains petroleum distillates

KEEP OUT OF REACH OF CHILDREN

**CAUTION**

**AVISO**

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

LG Life Sciences, Ltd.  
20 Yoido-dong, Youngdungpo-gu  
Seoul 150 721 Korea

EPA Registration No. 71532-XXX  
EPA Establishment No. XXXX-XX-XXX

Net Contents:

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**PRECAUTIONARY STATEMENTS**

Hazards to Humans and Domestic Animals

**CAUTION**

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

<b>FIRST AID</b>	
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 further 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 center or doctor for treatment advice.
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.
If Swallowed:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
Note to Physician: This product contains petroleum distillates – vomiting may cause aspiration pneumonia. Consideration should be given to gastric lavage with an endotracheal tube in place. Treatment is controlled removal of exposure followed by symptomatic and supportive care.	

**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 G on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants

Chemical-resistant gloves, such as Barrier Laminate or Viton

Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions are washable, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations**

Users should:

- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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**ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to fish and aquatic invertebrates. For terrestrial uses, 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 apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees, exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops if bees are visiting the treatment areas.

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 to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame.

**DIRECTIONS FOR USE**

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

**Resistance:** Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. 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 resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

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### **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) and 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 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: Coveralls, Chemical-resistant gloves, such as Barrier Laminate or Viton, and Shoes plus socks.

### **STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Do not store below 10°F, (-12°C). Do not use or store near heat, open flame or hot surfaces.

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides or fertilizers by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spill by: If liquid, dike surrounding area or absorb with sand, cat litter, commercial clay or gel absorbents. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

**Pesticide Disposal:** Pesticide wastes are 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 of the nearest EPA Regional Office for guidance.

#### **Container Disposal:**

**Plastic Containers:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Metal Containers:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not cut or weld metal containers.

**Returnable/Refillable Sealed Containers:** Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

**Chemigation Use Directions**

Apply this product only through sprinkler including center pivot, lateral move end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

LG Permethrin 3.2 EC Agricultural Insecticide should be applied continuously for the duration of the water application. LG Permethrin 3.2 EC Agricultural Insecticide should be diluted in sufficient volume to ensure accurate application over the area to be treated. When using chemigation, a minimum of 0.1 inch per acre of irrigation water is recommended. Agitation generally is not required when a suitable diluent is used. A diluent test should be conducted to ensure that phase separation will not occur during dilution and application. Failure to achieve a uniform dilution throughout the time of application may result in undesirable residues or less than desirable control.

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### **Commercial Impregnation and Application of LG Permethrin 3.2 EC Agricultural Insecticide On Dry Bulk Fertilizers**

LG Permethrin 3.2 EC Agricultural Insecticide may be impregnated on dry bulk fertilizers. When applied as directed, LG Permethrin 3.2 EC Agricultural Insecticide/dry bulk fertilizer mixtures provide insect control equal to that provided by the same rates of LG Permethrin 3.2 EC Agricultural Insecticide applied in water.

The LG Permethrin 3.2 EC Agricultural Insecticide/fertilizer mixtures may be surface applied or shallow incorporated. The higher rate should be used if incorporation is used.

**Impregnation:** Apply using a minimum of 200 pounds of dry bulk fertilizer per acre and up to a maximum of 450 pounds per acre with the recommended amount of LG Permethrin 3.2 EC Agricultural Insecticide per acre. Use a closed rotary-drum mixer or a similar type of closed blender equipped with suitable spray equipment. The spray nozzle(s) should be positioned to provide a uniform, fine spray pattern over the tumbling fertilizer for thorough coverage. The physical properties of fertilizers vary, particularly in liquid absorptive capacity. When absorptivity is sufficient, simple spray impregnation of the fertilizer with LG Permethrin 3.2 EC Agricultural Insecticide provides a satisfactory, dry mixture. If the absorptive capacity is inadequate, the use of a highly absorptive powder is required to provide a dry, flowable mixture. Microcel E (Johns-Manville Products Corporation) is a recommended absorbent powder. Generally less than 2% by weight of Microcel E is required. **DO NOT** impregnate LG Permethrin 3.2 EC Agricultural Insecticide onto straight coated ammonium nitrate or straight limestone because these materials will not absorb the insecticide. Dry fertilizer blends containing mixtures of ammonium nitrate or limestone may be impregnated with LG Permethrin 3.2 EC Agricultural Insecticide.

The amount of LG Permethrin 3.2 EC Agricultural Insecticide actually required in the preparation of individual fertilizer mixtures should be determined carefully for each production operation. This is necessary to ensure that the amount of pesticides actually contained in the mixture applied to the soil represents the correct rate of use. Bulk fertilizer impregnated with LG Permethrin 3.2 EC Agricultural Insecticide should be applied immediately, not stored.

All individual state regulations relating to bulk dry fertilizer blending, registration, labeling, and application of the mixtures are the responsibility of the individual and/or company selling the fertilizer and LG Permethrin 3.2 EC Agricultural Insecticide mixture.

### **GENERAL INSTRUCTIONS**

Unless otherwise directed by registered supplemental labeling, follow the Directions for Use in each crop group section.

LG Permethrin 3.2 EC Agricultural Insecticide is a 3.2 pounds per gallon formulation of the insecticide permethrin. Apply LG Permethrin 3.2 EC Agricultural Insecticide when insects appear or feeding is noticed. The higher rate should be used as pest populations increase. Repeat the application as necessary to maintain control. LG Permethrin 3.2 EC Agricultural Insecticide may be applied by both ground and aerial equipment. Use sufficient water to obtain



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full coverage. With the exception of crops listed below, rotational crops should not be planted within 60 days of last application.

This label must be in the possession of the user at the time of application.

**Alfalfa: Alfalfa grown for seed (0 day phi)\*** (Includes Lucerne, sainfoin, holy clover, esparcel, birdsfoot trefoil and varieties and/or hybrids of these)

Insects Controlled	Rate of Application	Method of Application
Alfalfa Caterpillar Armyworms Blue Alfalfa Aphid Cutworms Green Cloverworm Green Peach Aphid Loopers Pea Aphid Spotted Alfalfa Aphid Velvetbean Caterpillar Webworms	2 to 8 ounces (0.05 to 0.2 pound active) per acre	Use higher recommended dosage for increased pest pressure or for increased residual pest control. Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or 2 gallons of finished spray per acre by aircraft.
Alfalfa Weevil Cucumber Beetle Egyptian Alfalfa Weevil Meadow Spittlebug Plant Bugs (including <i>Lygus</i> spp.) Potato Leafhopper Stink Bugs	4 to 8 ounces (0.1 to 0.2 pound active) per acre	
Do not apply more than 0.2 pound active ingredient per cutting. *When rates greater than 0.1 pound active per acre are used, do not apply within 14 days of harvest. Do not apply to mixed stands with intentionally grown forage grasses and/or legumes.		

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**Almonds (7 day phi)**

Insects Controlled	Rate of Application	Method of Application
Navel Orangeworm Peach Twig Borer	8 to 16 ounces (0.2 to 0.4 pound active) per acre	Apply when insects appear. Apply in a minimum of 15 gallons of finished spray per acre by aircraft or 25-400 gallons of finished spray per acre with ground equipment.
Ants	16 ounces (0.4 pound active) per acre	Apply by ground equipment in a minimum of 15 gallons of finished spray per acre. Application should follow mowing of weed growth to insure maximum coverage of the soil surface. Overhead moisture following application will enhance activity.
<p>Do not apply more than 0.8 pound active ingredient per acre during hull split.            Do not apply more than 2.0 pounds active ingredient per acre per season.            Do not graze livestock in treated areas.            Do not feed cover crops from treated areas to livestock.</p>		

**Apples**

Insects Controlled	Rate of Application	Method of Application
Green Fruitworm Oblique Banded Leafroller Plum Curculio Redbanded Leafroller Rosy Apple Aphid Spotted Tentiform Leafminer Tarnished Plant Bug White Apple Leafhopper	4 to 16 ounces (0.1 to 0.4 pound active) per acre	Use with ground equipment only. Apply in 25-400 gallons of finished spray per acre when insects first appear and repeat as required to maintain control.
<p>Do not apply more than 0.6 pound active per acre per season.            Do not apply after petal fall.            Do not graze livestock in treated areas.            Do not feed cover crops from treated areas to livestock.</p>		

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**Artichoke (0 day phi)**

Insects Controlled	Rate of Application	Method of Application
Artichoke Plum Moth Leafminers	4 to 12 ounces (0.1 to 0.3 pound active) per acre	Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft. Apply as needed. Buds may be harvested on the day of application.
Do not apply more than 5 applications (1.5 pounds active ingredient) per acre per season.		

**Asparagus (1 day phi)**

Insects Controlled	Rate of Application	Method of Application
Asparagus Beetle Cutworms	2 to 4 ounces (0.05 to 0.1 pound active) per acre	Apply with ground equipment in a minimum of 10 gallons of finished spray per acre. Apply as needed.
Asparagus Beetle Japanese Beetle (Adult stage)* Lygus Bugs Tarnished Plant Bug	4 ounces (0.1 pound active) per acre	For post harvest application, apply to the fern stage of the asparagus plant after spear harvest when larval and adult stage are present * Not for control of this insect in California
Do not apply more than 0.4 pound active ingredient per acre per season.		

**Avocado (7 day phi)**

Insects Controlled	Rate of Application	Method of Application
Avocado Caterpillar Avocado Lace Bug Avocado Leafhopper Avocado Leafroller Avocado Looper Avocado Tree Girdler Avocado Whitefly Brown Soft Scale Mirids Omnivorous Looper Orange Tortrix Scale Crawlers Spanworm Thrips Twig Borers	8 ounces (0.2 pound active) per acre	Apply with ground equipment in 25-400 gallons of finished spray per acre. Apply when insects first appear and repeat at 7 to 10 day intervals as needed to provide control.
Do not apply more than 1.2 pounds active ingredient per acre per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.		

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**Broccoli; Chinese Broccoli** (gai lon, white flowering broccoli); **Brussels Sprouts; Cauliflower; Cavalo broccoli, Kohlrabi (1 day phi)**

Insects Controlled	Rate of Application	Method of Application
Armyworm spp. Cabbage Looper Diamondback Moth Imported Cabbageworm Plant Bugs Thrips	2 to 4 ounces (0.05 to 0.1 pound active) per acre	Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft. Apply as needed.
Do not apply more than 0.8 pound active ingredient per acre per season.		

**Cabbage; Cabbage, Chinese** (napa) (tight-heading varieties only) **(1 day phi)**

Insects Controlled	Rate of Application	Method of Application
Cabbage Looper Diamondback Moth Imported Cabbageworm Southern White Butterfly	2 to 8 ounces (0.05 to 0.2 pound active) per acre	Apply with ground equipment in a minimum of 10 gallons per acre or in a minimum of 2 gallons per acre by aircraft. Apply as needed.
Armyworm spp. Cutworms Flea Beetles	4 to 8 ounces (0.1 to 0.2 pound active) per acre	
Do not apply more than 1.0 pound active ingredient per acre per season.		

**Cantaloupes:** For general use directions refer to the **Cucurbit Vegetable** crop grouping.

**Celery, Florence fennel** (sweet anise, sweet fennel, finocchio) (fresh leaves and leaf petioles only): For general use directions refer to the **Leafy Vegetables** crop grouping.

**Cherries** (includes Sweet Cherries and Tart Cherries) **(3 day phi)**

Insects Controlled	Rate of Application	Method of Application
Green Fruitworm Lesser Peach Tree Borer Plum Curculio Redbanded Leafroller Rose Chafer Tarnished Plant Bug	4 to 8 ounces (0.1 to 0.2 pound active) per acre	Use LG Permethrin 3.2 EC Agricultural Insecticide as a dilute spray. Apply when insects appear. Apply with ground equipment in 25-400 gallons of finished spray per acre.
Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. <i>East of the Rockies</i> , do not exceed 6 applications per season, with no more than 4 applications after petal fall. <i>West of the Rockies</i> , do not apply more than 4 applications per season, with no more than 3 applications after petal fall.		

**Chrysanthemums**

Insects Controlled	Rate of Application	Method of Application
Liniomyza Leafminer Flies	20 fluid ounces (0.5 pound active) per 100 gallons (1 teaspoon per gallon)	Avoid spraying the blooms. Caution: Before treating large numbers of plants of a particular cultivar, treat a few plants and observe prior to full scale application.

**Collards and Turnips (1 day phi)**

Insects Controlled	Rate of Application	Method of Application
Beet Armyworm Cabbage Looper Corn Earworm Cutworms Diamondback Moth European Corn Borer Fall Armyworm Green Cloverworm Imported Cabbageworm Leafhoppers Leafminers Southern Armyworm Southern White Butterfly Tobacco Budworm Vegetable Leafminer Aphids*	2 to 4 ounces (0.05 to 0.1 pound active) per acre	Apply with ground equipment only. Apply with ground equipment in a minimum spray volume of 10 gallons of finished spray per acre. Apply as needed.
For use on Collards in AR, AZ, GA, IL, NC, OK, SC, and TX and on Turnips in FL, GA, IL, IN, OK, SC, TX, and WA. Do not apply more than 0.8 pound active ingredient per acre per season on Collards and Turnips (AR, TX & IN). Do not apply more than 0.4 pound active ingredient per acre per season on Turnips (SC, GA, FL & WA). * Suppression only.		

**Conifers (Container and Field Grown)**

Insects Controlled	Rate of Application	Method of Application
Nantucket Pine Tip Moth	4 to 8 fluid ounces (0.1 to 0.2 pound active) per acre	LG Permethrin 3.2 EC Agricultural Insecticide may be diluted in a non-volatile vegetable oil or water in a minimum of 1 gallon of finished spray per acre using equipment calibrated to give adequate coverage. Begin application when the adults appear and repeat at 5 to 7 day intervals or as needed throughout the season.

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**Corn (Field), Field Corn Grown for Seed, Popcorn**

Insects Controlled	Rate of Application	Method of Application
<p><i>Preemergent Use:</i>  Armyworms  Cutworms  Stalk Borers</p>	<p>4 to 8 ounces  (0.1 to 0.2 pound active)  per acre as a broadcast spray  OR  0.3 to 0.6 ounces per 1,000 linear row  (based on 4" band and 40" row spacing)</p>	<p>LG Permethrin 3.2 EC Agricultural Insecticide may be applied as a preplant incorporated, preemergence, or at planting time application. Apply as a broadcast spray by ground or air (minimum of 2 gallons finished spray per acre by air) or 4-15 inch band using sufficient spray volume to achieve adequate coverage.</p> <p>Linear row calculations should be used proportional to the standard Band Width/Row Width formula to adjust rates for different band widths or row spacings. Use higher rates of LG Permethrin 3.2 EC Agricultural Insecticide when incorporating into the soil without exceeding the recommended dosage.</p> <p>When using tank mixes, observe all restrictions and precautions which appear on the labels of these products. Provide constant agitation during mixing and application to keep the mixture in solution.</p>
<p><i>Foliar Use:</i>  Armyworm (including Fall Armyworm)  Corn Borer  European Southwestern  Corn Earworm  Corn Rootworm Beetles  Cutworms  Flea Beetle  Hop Vine Borer  Stalk Borers  Webworms</p>	<p>4 to 8 ounces  (0.1 to 0.2 pound active)  per acre</p>	<p>When treating for stalk borers, LG Permethrin 3.2 EC Agricultural Insecticide must be applied when or shortly before the stalk borer larvae are moving into the corn from surrounding weeds and grasses. Mowing or burndown herbicides are suggested to initiate movement. For control of Corn Earworm apply just before silking and continue as necessary to maintain control. Apply a minimum of 2 gallons of finished spray per acre by air or 10 gallons per acre with ground equipment.</p>
<p><i>Foliar Use:</i>  Western Bean Cutworm</p>	<p>2 to 4 ounces  (0.05 to 0.1 pound active)  per acre</p>	
<p>Up to 0.6 pound active ingredient may be used per season.  Do not make treatments less than 6 days apart or apply less than 30 days prior to harvest of grain or fodder (stover).  Forage may be harvested on the day of application.</p>		

**Corn (Field), Field Corn Grown for Seed, Popcorn (At Plant Use)**

Insects Controlled	Rate of Application	Method of Application
Armyworms Cutworms Seed Corn Maggot* Wireworm* *Not for use in California	0.3 ounces per 1,000 linear feet of row	Apply as an in-furrow, band, or T-band treatment using a minimum 4" band. Use table below to determine the LG Permethrin 3.2 EC Agricultural Insecticide needs for each acre.
Row Spacings (inches)	40	30 20
LG Permethrin 3.2 EC Agricultural Insecticide (pounds ai/acre)	0.10	0.15 0.20
LG Permethrin 3.2 EC Agricultural Insecticide (formulated ounces/acre)	4.0	6.0 8.0

**Corn, Sweet (1 day phi)**

Insects Controlled	Rate of Application	Method of Application
Corn Earworm Corn Rootworm Beetles* European Corn Borer Fall Armyworm Flea Beetle Hop Vine Borer Leafhoppers Southern Armyworm Stalk Borers	4 to 8 ounces (0.1 to 0.2 pound active) per acre	Apply every 3 to 5 days or as needed.  Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft.  *Pest does not occur on this crop in California.
Do not apply more than 1.2 pounds active ingredient per acre per season.		

**Corn, Sweet (Florida Only)**

Insects Controlled	Rate of Application	Method of Application
Aster Leafhopper Corn Earworm Cutworm European Corn Borer Fall Armyworm Southern Armyworm	4 to 10 ounces (0.1 to 0.25 pound active) per acre	Apply every 3 to 5 days as needed.  Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft.
Do not apply more than 2.0 pounds active ingredient per acre per season.		

**Cucurbit Vegetables (0 day phi):** **Chayote (fruit)** (*Sechium edule*); **Chinese waxgourd (Chinese preserving melon)** (*Bernincasa hispida*); **Citron melon** (*Citrullus lanatus* var. *citroides*); **Cucumber** (*Cucumis sativus*); **Gherkin** (*Cucumis anguria*); **Gourd, edible** (*Lagenaria* spp.) (includes hyotan, cucuzza); (**Luffa spp.**) (includes hechima, Chinese okra); (**Momordica spp.**) (includes balsam apple, balsam pear, bitter melon, Chinese cucumber); **Muskmelon (hybrids and/or cultivars of Cucumis melo)** (includes true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon); **Pumpkin** (*Cucurbita* spp.); **Squash, Summer** (*Cucurbita pepo* var. *melopepo*) (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); **Squash, winter** (*Cucurbita maxima*; *C. moshata*) (includes butternut squash, calabaza, hubbard squash); (*C. mixta*; *C. pepo*) (includes acorn squash, spaghetti squash); **Watermelon** (includes hybrids and/or varieties of *Citrullus* spp.).

Insects Controlled	Rate of Application	Method of Application
Aphids Leafminers Squash Bug	8 ounces (0.2 pound active) per acre	Apply with ground equipment in a minimum spray volume of 20 gallons of finished spray per acre or in a minimum of 4 gallons per acre by aircraft.
Cabbage Looper Cucumber Beetle (adults) Cutworms Leafhoppers Melonworm Pickleworm Plant Bugs (including Lygus and Stink Bugs) Rindworms Squash Vine Borer	4 to 8 ounces (0.1 to 0.2 pound active) per acre	
Do not apply more than 1.6 pounds active ingredient per acre per season. Applications may be made up to harvest.		

**Eggplants (3 day phi)**

Insects Controlled	Rate of Application	Method of Application
Colorado Potato Beetle	8 ounces (0.2 pound active) per acre	Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or a minimum of 2 gallons by aircraft. Apply using sufficient water to obtain uniform coverage. Apply as needed.
Cabbage Looper Flea Beetle Vegetable Leafminer	4 to 8 ounces (0.1 to 0.2 pound active) per acre	
Do not apply more than 2.0 pounds active ingredient per acre per season.		



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**Filberts (14 day phi)**

Insects Controlled	Rate of Application	Method of Application
Filbertworm Oblique Banded Leafroller	8 to 16 ounces (0.2 to 0.4 pound active) per acre	For full coverage application apply 0.05 to 0.1 pound active per 100 gallons (based on 400 gallons finished spray per acre) and spray to run-off, OR for low volume concentrate application apply 0.2 to 0.4 pound active per acre (50 to 200 gallons finished spray per acre). For aerial application apply 0.2 to 0.4 pound active in a minimum of 10 gallons of finished spray per acre. Apply when insects appear.
Do not apply more than 1.6 pounds active ingredient per acre per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.		

**Horseradish (30 day phi)**

Insects Controlled	Rate of Application	Method of Application
Imported Crucifer Weevil ( <i>Baris lepidii</i> )	0.1% active solution (2 pints, 1 ounce of LG Permethrin 3.2 EC Agricultural Insecticide per 100 gallons)	As a spring preplant dip, soak sets for 30 minutes and air-dry before planting.
	8 ounces (0.2 pound active) per acre	For foliar application, apply with ground equipment in a minimum spray volume of 20 gallons finished spray per acre. Make up to 3 foliar applications as needed to control weevil adults during oviposition.

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**Leafy Vegetables (except Brassica) (1 day phi): Amaranth** (leafy amaranth, Chinese spinach, tampala); **Arugula** (Roquette); **Cardoon**; **Celery**; **Celery, Chinese**; **Celtuce**; **Chervil**; **Chrysanthemum, edible-leaved and garland**; **Corn salad**; **Cress, garden**; **Cress, upland** (yellow rocket, winter cress); **Dandelion**; **Dock** (sorrel); **Endive** (escarole); **Fennel, Florence** (finocchio); **Lettuce, head and leaf**; **Orach**; **Parsley**; **Purslane, garden**; **Purslane, winter**; **Radicchio** (red chicory); **Rhubarb**; **Swiss chard**.

**Spinach** (including New Zealand and vine, Malabar spinach, Indian spinach).\*

Insects Controlled	Rate of Application	Method of Application
Aphids Beet Armyworm Corn Earworm Cutworms European Corn Borer Fall Armyworm Green Cloverworm Leafminers Southern Armyworm Tobacco Budworm	4 to 8 ounces (0.1 to 0.2 pound active) per acre	Apply every 3 to 5 days or as needed by air or ground. Use sufficient water to obtain full coverage of foliage. Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft.
Alfalfa Looper Cabbage Looper Leafhoppers	2 to 8 ounces (0.05 to 0.2 pound active) per acre	
Do not apply more than 2.0 pounds active ingredient per acre per season. *For Spinach, do not apply more than 1.0 pound active ingredient per acre per season.		

**Lettuce, Head:** For general use directions refer to the **Leafy Vegetable** crop grouping.

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**Mushrooms (Mushroom houses and adjacent premise areas) (3 day phi)**

Insects Controlled	Rate of Application	Method of Application
<p>Mushroom Flies (Sciarid and Phorid adults)</p>	<p>Apply as a fogging or aerosol treatment at the rate of 2.0 to 2.5 ounces (0.05 to 0.0625 pound active) per 30 ounces of water or suitable diluent.</p> <p>Use 1 quart of solution per standard double house (35,000 cu. ft.; 8,000 sq. ft.)</p>	<p>Preparation of the building prior to fogging: (1) Close all doors, windows, and ventilators, (2) Lock or barricade all entrances, turn off pilot lights, post warning signs, and take precautions to prevent persons and animals from entering the area.</p> <p>Use prior to filling the house, during cool-down, during spawning, up to pinning, and between breaks. Do not use when mushrooms are present.</p> <p>Treat once daily as needed when flies appear. Do not make more than 20 applications prior to pinning of first break; apply no more than 2 applications between each break. Do not apply more than 30 applications total per crop of 5 breaks.</p> <p>Length of exposure time should be limited to 1 hour; then ventilate the house. Use fans to ventilate in houses that do not have forced air circulation.</p> <p>Wear a respirator with either an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).</p>

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**Onions, Bulb and Garlic (1 day phi)**

Insects Controlled	Rate of Application	Method of Application
Army worms Onion Thrips	6 to 12 ounces (0.15 to 0.3 pound active) per acre	Apply with ground equipment in a minimum of 20 gallons of finished spray per acre or in a minimum of 5 gallons per acre by aircraft. Begin applications when pests appear and repeat as necessary to maintain control. Use the higher label rates as Onion Thrips population increases and avoid rescue situations.
Cutworms Leafminers Onion Maggots (Adults) Stink Bugs	4 to 12 ounces (0.1 to 0.3 pound active) per acre	
Do not apply more than 2.0 pounds active ingredient per acre per season.		

**Ornamental Nursery Stock (Field Grown)**

Insects Controlled	Rate of Application	Method of Application
Bagworm Beet Armyworm Cabbage Looper Citrus Thrips <i>Heliothis</i> spp. Lace Bug Leafhoppers Leafminers Whiteflies	4 to 8 ounces (0.1 to 0.2 pound active) per 100 gallons of water	LG Permethrin 3.2 EC Agricultural Insecticide may be used to control specified pests on non-edible ornamentals and non-bearing plants of fruiting species.  Caution: Marginal leaf burn may occur on <i>Salvia</i> , <i>Dieffenbachia</i> and <i>Pteris</i> Fern. Application to blooming plants may cause browning of petals. Before treating large numbers of plants of a particular variety, treat a few plants and observe prior to full scale application.

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**Papaya (Florida Only) (7 day phi)**

Insects Controlled	Rate of Application	Method of Application
Aphids Brown Soft Scale Mealybug Papaya Fruit Fly Papaya Webworm Papaya Whitefly Scale Crawlers	8 ounces (0.2 pound active) per acre	Apply with ground equipment in 25-400 gallons of finished spray per acre. Apply when insects first appear and repeat at 7 to 10 day intervals as needed to provide control.
Do not apply more than 1.2 pound active ingredient per acre per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.		

**Peaches, Nectarines (14 day phi)**

Insects Controlled	Rate of Application	Method of Application
Green Fruitworm Lesser Peach Tree Borer Oriental Fruit Moth Peach Twig Borer Plum Curculio Rose Chafer Tarnished Plant Bug	4 to 12 ounces (0.1 to 0.3 pound active) per acre	Apply with ground equipment using 25-400 gallons of spray per acre or a minimum of 10 gallons per acre by aircraft. Spray to wet all foliage.
Do not apply more than 1.5 pound active ingredient per acre per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.		

**Pears (Dormant through Delayed Dormant)**

Insects Controlled	Rate of Application	Method of Application
Pear Psylla	8 to 16 ounces (0.2 to 0.4 pound active) per acre	LG Permethrin 3.2 EC Agricultural Insecticide may be combined with 2 to 8 gallons of spray oil per acre. Apply during the dormant through delayed dormant growth periods only. Apply in a minimum of 10 gallons of finished spray per acre by aircraft and 25-400 gallons per acre by ground equipment.
Do not apply more than 0.8 pound active ingredient per acre per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.		

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**Pear (Pre-Bloom)**

Insects Controlled	Rate of Application	Method of Application
Codling Moth Green Fruitworm Pear Psylla	8 to 16 ounces (0.2 to 0.4 pound active) per acre	Apply with ground equipment using 25-400 gallons of finished spray per acre or a minimum of 10 gallons per acre by aircraft. Pre-bloom sprays can be applied from dormant through bud burst stages.
Do not apply more than 0.8 pound active ingredient per acre per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.		

**Peppers, Bell (3 day phi)**

Insects Controlled	Rate of Application	Method of Application
Cabbage Looper Corn Earworm Cutworms Flea Beetle Pepper Weevil Vegetable Leafminer	4 to 8 ounces (0.1 to 0.2 pound active) per acre	Apply using sufficient water to obtain uniform coverage. Apply as needed. Apply with ground equipment using a minimum of 10 gallons of finished spray per acre or a minimum of 2 gallons per acre by aircraft.
European Corn Borer	8 ounces (0.2 pound active) per acre	
Do not apply more than 1.6 pounds active ingredient per acre per season.		

**Pine Seed Orchards**

Insects Controlled	Rate of Application	Method of Application
Coneworms Seed Bugs	8 ounces in 100 gallons of water (0.025% dilution by weight)	For high volume sprayers, apply 5 to 10 gallons of finished spray per tree.
	42 ounces in 100 gallons of water (0.125% dilution by weight)	For low volume sprayers, apply 100 gallons per acre.
	30 ounces per acre	For aerial application, use in not less than 10 gallons of water.
To control Webbing Coneworm – make first application within 1 week of female flower closure or peak pollen flight. To control other coneworms and seed bugs – make first application within 30 days following female flower closure. Repeat applications at 4 week intervals, but do not apply more than 6 applications.		
Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Avoid Contact with open water.		

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**Pistachios (0 day phi)**

Insects Controlled	Rate of Application	Method of Application
Leaffooted Bugs Naval Orangeworm Peach Twig Borer Plant Bugs Stink Bugs	8 to 16 ounces (0.2 to 0.4 pound active) per acre	Use sufficient water to obtain full coverage of foliage. Apply LG Permethrin 3.2 EC Agricultural Insecticide in a minimum of 10 gallons of finished spray per acre by aircraft or by ground equipment in 25-400 gallons of finished spray per acre.
Ants	16 ounces (0.4 pound active) per acre	Application should follow mowing of weed growth to insure maximum coverage of the soil surface. Overhead moisture following application will enhance activity.
Do not apply more than 1.6 pound active ingredient per acre per crop season. Do not apply after 10% hull split. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.		

**Potatoes (14 day phi)**

Insects Controlled	Rate of Application	Method of Application
Aster leafhopper Beet Armyworm Cabbage Looper Colorado Potato Beetle Cutworms European Corn Borer Potato Aphid Potato Flea Beetle Potato Leafhopper Potato Psyllid Potato Tuberworm Tarnished Plant Bug	4 to 8 ounces (0.1 to 0.2 pound active) per acre	Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft. LG Permethrin 3.2 EC Agricultural Insecticide may also be applied using refined non-volatile vegetable oil for control of listed pests. LG Permethrin 3.2 EC Agricultural Insecticide should be diluted with oil and applied in a minimum of one quart total volume per acre using equipment calibrated to give adequate coverage. Use sufficient spray volume to obtain full coverage.
Do not apply more than 1.6 pounds active ingredient per acre per season.		

**Pumpkins:** For general use directions refer to the **Cucurbit Vegetables** crop grouping.

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**Range Grass (New Mexico Only)**

Insects Controlled	Rate of Application	Method of Application
Range Caterpillar	0.4 ounces (0.01 pound active) per acre	Apply using sufficient spray volume to obtain uniform coverage. Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft.
Do not apply more than once per year. Cattle may be present during application. Do not harvest or feed hay to livestock.		

**Roses (Field Grown)**

Insects Controlled	Rate of Application	Method of Application
<i>Heliothis</i> spp.	4 to 8 fluid ounces (0.1 to 0.2 pound active) per acre	LG Permethrin 3.2 EC Agricultural Insecticide may be applied with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons of finished spray per acre by aircraft.

**Roses (Greenhouse)**

Insects Controlled	Rate of Application	Method of Application
Beet Armyworm Cabbage Looper Omnivorous Leafroller	8 fluid ounces (0.2 pound active) per 100 gallons of water	Caution: LG Permethrin 3.2 EC Agricultural Insecticide is not phytotoxic to the following varieties of greenhouse roses: Ballena, Bettina, Cara Mia, Coquette, Excitement, Forever Yours, G. Wave, Jack Frost, Jr. Bridesmaid, Matador, Paul's Pink, Samantha, Seventeen, Sonia, Town Crier, Tropicana and Visa. Other varieties may vary in their sensitivity to LG Permethrin 3.2 EC Agricultural Insecticide and a small number of plants should be treated under local conditions to determine plant safety prior to commercial use.

**Spinach:** Refer to **Leafy Vegetable** crop grouping for general use directions. Do not apply more than 1.0 pound active ingredient per acre per season.



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**Tomatoes, Tomatillos (0 day phi)**

Insects Controlled	Rate of Application	Method of Application
Beet Armyworm Cabbage Looper Colorado Potato Beetle Granulate Cutworm Hornworms Southern Armyworm Tomato Fruitworm Tomato Pinworm Vegetable Leafminer	2 to 8 ounces (0.05 to 0.2 pound active) per acre	Apply with ground equipment in a minimum of 10 gallons finished spray per acre or in a minimum of 2 gallons per acre by aircraft.
Do not apply more than 1.2 pounds active ingredient per acre per season. Do not apply to cherry tomatoes or other varieties which produce fruit less than one inch in diameter.		

**Walnuts (1 day phi)**

Insects Controlled	Rate of Application	Method of Application
Codling Moth Navel Orangeworm Walnut Husk Fly	8 to 16 ounces (0.2 to 0.4 pound active) per acre	For full coverage application apply 0.05 to 0.1 pound active per 100 gallons (based on 400 gallons finished spray per acre), spray to run-off; OR, for low volume application apply 0.2 to 0.4 pound active per acre (25-200 gallons finished spray per acre). For aerial application apply 0.2 to 0.4 pound active in a minimum of 10 gallons of finished spray per acre. Apply when insects appear.
Do not apply more than 1.6 pounds active ingredient per acre per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.		

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**Premises Spray**

For agricultural use only.

Spray directly to walls and ceiling as residual surface treatment only. Do not treat manure or litter. Avoid contamination of feed and water. Do not apply directly to livestock or poultry.

For Application In	Insects Controlled	Rate of Application	Method of Application
Dairies, Barns, Feedlots, Stables, Poultry Houses, Swine and Livestock Houses	House Flies, Stable Flies and Other Manure Breeding Flies. Also aids in the reduction of Cockroaches, Mosquitoes and Spiders	1 gallon per 750 square feet of surface	Dilute 4 ounces to 12.5 gallons of water. Apply with sprayer.

Re-treat as necessary, but not more often than once every 2 weeks.

The use of any residual fly spray should be supplemental with proper manure management and general sanitation to reduce or eliminate fly breeding site.

**Treatment of Preconstruction Lumber and Logs**

**General Information**

LG Permethrin 3.2 EC Agricultural Insecticide should be diluted with water. To prepare the spray, dilute LG Permethrin 3.2 EC Agricultural Insecticide as shown in the following spray dilution chart:

Spray Dilution Chart			
Gallons of Spray Mixture Desired	Gallons of LG Permethrin 3.2 EC Agricultural Insecticide to Use		
	0.5% Solution	0.75% Solution	1.0% Solution
40	1/2	3/4	1
80	1	1 1/2	2
200	2 1/2	3 3/4	5
400	5	7 1/2	10
800	10	15	20

**Directions for Application**

To protect unseasoned lumber and logs from wood destroying insects, such as Termites, Carpenter Ants, and Beetles (Ambrosia, Powder-post, Old house borers, and others), totally treat wood with a 0.5% to 1.0% solution of LG Permethrin 3.2 EC Agricultural Insecticide. This solution can be applied by various methods including spraying, brushing, dipping, and pressure treatment. Frequent monitoring of dip and pressure systems are necessary to insure that the desired level of LG Permethrin 3.2 EC Agricultural Insecticide is maintained. Wood can be handled after treatment when dry.

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1. For dip treatments, the wood should be totally submersed in the solution until thoroughly wet and then allowed to dry in a suitable location. Dipping solutions to which LG Permethrin 3.2 EC Agricultural Insecticide has been added should be agitated before use if left unused for long periods of time. Sediment, debris and other deposits should be periodically cleaned from the tank.
2. For pressure treatments the wood should be placed in the treatment chamber, the LG Permethrin 3.2 EC Agricultural Insecticide solution added and the system pressurized up to 250 psi for up to one hour depending on the density and type of wood treated. After the pressure is released and the system drained, the wood should be placed in a suitable location for drying.
3. For spray treatments, the wood should be sprayed thoroughly including back and ends.
4. For brush treatments, all parts of wood surfaces should be thoroughly treated.

**Rate Conversion Chart**

Pounds Active Per Acre	Formulation Ounces Per Acre
0.05	2.0
0.10	4.0
0.15	6.0
0.20	8.0
0.25	10.0
0.30	12.0
0.40	16.0

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