

74779-6

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



DEC 07 2009

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

David Anderson  
Rainbow Treecare Scientific Advancements  
2239 Edgewood Ave S  
St. Louis Park, MN 55426

Dear Mr. Anderson,

Subject: Amendment for Ornamental Tree & Shrub section: increase rate per tree but not per acre and decrease water needed for dilution  
Lepitect Systemic Tree & Shrub Insecticide  
EPA Registration No. 74779-6

The labeling referred to above submitted in connection with the Federal Insecticide, Fungicide and Rodenticide Act, as amended is acceptable provided you make the following changes:

- On page 5, under "Mixing Instructions," revise the sentence that currently reads: "With such equipment, this product should be premixed with water..." to read: "With such equipment, premix this product with water..." to make the sentence definitive.
- On page 13, in the top table, revise the spelling of the use site that reads "Crape Myrtle" to read "Crepe Myrtle."
- On page 13, in the fifth column of the top table, revise the sentence that reads "Applications made to trunks 6 to 8 inches above the ground and below the point where branching begins" to read "Make applications to trunks 6 to 8 inches above the ground and below the point where branching begins" so that it is a complete sentence.
- On page 19, under the "Storage and Disposal" statement, revise the subheading that reads "Storage" to read "Pesticide Storage."

Please submit one final printed copy of the labeling before releasing the product for shipment. A stamped copy of the labeling is enclosed for your records. If you have any questions regarding this label, please contact Autumn Metzger at (703) 305-5314 or metzger.autumn@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Venus Eagle".

Venus Eagle  
Product Manager 01  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

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# Lepitect™

Systemic Tree & Ornamental Insecticide

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

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.)

See Side/Back Panel for Additional Precautionary Statements, First Aid and Directions for Use

Lepitect™ Systemic Tree & Ornamental Insecticide is absorbed through the plant root system and then moves throughout the plant, protecting it from the damage caused by sucking insects (aphids, lace bugs, leafhoppers, and thrips) and certain chewing insects (leafminers, leaf beetles, leaf tiers, and caterpillars) as listed.

Active Ingredient	
Acephate (O,S-Dimethyl acetylphosphoramidothioate).....	97.4%
Other Ingredients.....	2.6%
Total	100%

EPA Reg. No. 74779-6

EPA Est. No.

Net Contents: 283.5 g (10 oz)

Rainbow Treecare Scientific Advancements  
11571 K-Tel Drive Minnetonka, MN 55343

1-877-ARBORIST  
1-877-272-6747

[www.treecarescience.com](http://www.treecarescience.com)

**ACCEPTED  
With COMMENTS  
In EPA Letter Dated:  
DEC 07 2009**

**Under the Federal Insecticide, Fungicide  
and Rodenticide Act, As amended, for the  
pesticide Registered under EPA Reg. No:**

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<b>FIRST AID:</b> Acephate is an organophosphate, cholinesterase inhibitor	
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"><li>• Call poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>IF IN EYES</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call poison control center or doctor immediately for treatment advice.</li></ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call poison control center or doctor immediately for treatment advice.</li></ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"><li>• Move person to fresh air</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>• Call poison control center or doctor immediately for treatment advice.</li></ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
<b>HOT LINE NUMBER</b>	
For 24 hour medical emergency assistance (human or animal), or chemical emergency assistance (spill, leak or accident). Call CHEMTREC at 1-800-424-9300.	
<b>NOTES TO PHYSICIAN</b>	
This material contains a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure but decisions regarding treatment will usually need to be made before test results are available. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (PROTOPAM) is also antidotal and may be used in conjunction with atropine but should not be used alone.	

**PRECAUTIONARY STATEMENT  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

Some materials that are chemical-resistant to this product are those made of any waterproof material. If you want more options, follow the instruction for category A on an EPA chemical-resistant category selection sheet.

**Mixers, loaders, applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical resistant gloves
- Shoes plus socks

**In addition, all mixers and loaders and all applicators using low pressure hand wand application**

**equipment must wear:**

- A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter

**Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them.** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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 pesticide is toxic to birds. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean water high mark. Do not contaminate water when cleaning equipment or disposing of wastes. Cover or soil-incorporate spills.

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 or weeds if bees are visiting the treatment area.

**DIRECTIONS FOR USE**

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

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

**RESTRICTIONS**

- 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 this product through any type of irrigation system.
- Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.
- For use on turf, use limited to sod farms and golf courses, except when applying to mound or spot treatment for fire ant and harvester ant control.
- Do not apply using low pressure hand wand except for control of fire ants as a mound treatment and when used on ornamental trees, shrubs, and floral plants grown for non-agricultural or non-commercial use.

- Not for indoor residential use. For greenhouse use, use is limited to commercial greenhouses for use on ornamental, floral and foliage plants.
- Do not apply by air.

#### **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 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 24 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, waterproof gloves, 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.

Do not enter or allow others to enter treated areas until sprays have dried.

#### **TANK MIXES**

**NOTICE:** Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

Read and follow the entire label of each product to be used in the tank mix with this product.

#### **SPRAY DRIFT MANAGEMENT**

A variety of factors including weather conditions, (e.g., wind direction, wind speed, temperature, relative humidity) and method of application can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product.

- All application equipment must be properly maintained and calibrated using water as carrier. Do not apply this product as an ultralow (ULV) spray, or in any carrier other than water.
- Use the largest droplet size consistent with good pest control. Small droplets are more prone to spray drift and can be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
- Do not apply at wind speeds greater than 10 mph at the application site.
- Apply as close to target plants as practical to obtain a good spray pattern for adequate coverage.
- For airblast applications, direct spray above foliage and turn off outward pointing nozzles at row ends and outer rows.
- Do not apply at heights greater than 4 feet.

**MIXING INSTRUCTIONS**

Thoroughly clean all application components prior to mixing. Add approximately ½ of the required amount of water to the application tank and begin agitation. Add the required amount of Lepitect™ Systemic Tree & Ornamental Insecticide and mix thoroughly. Then add other additives and the remaining water. Maintain agitation during filling and application to ensure uniform mixture.

For application equipment that has minimal agitation, give proper attention when mixing this product. With such equipment, this product should be premixed with water to form a slurry prior to putting the product into the applicator. If premixing is not done, then allow adequate time for the product to dissolve in the water prior to beginning applications.

**SMALL VOLUME DILUTION CHART**

Amount of product per 100 gallons of water	Amount of product per 25 gallons of water	Amount of product per 1 gallon of water
¼ lb (113.4 g)	1 oz (28.3 g)	1/3 tsp (1.1 g)
½ lb (226.8 g)	2 oz (56.7 g)	2/3 tsp (2.3 g)
¾ lb (340.2 g)	3 oz (85.0 g)	1 tsp (3.4 g)
1 lb (453.6 g)	4 oz (113.4 g)	1 1/3 tsp (4.5 g)

**NON-BEARING CITRUS****DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS.**

PLANTS	INSECTS	AMOUNT OF PRODUCT PER ACRE	APPLICATION TIMING	APPLICATION DIRECTIONS	RESTRICTIONS
Non-Bearing Citrus (including citrus nursery seedlings)	Aphids Grasshoppers Katydid Mealybugs Orangedogs Plant Bugs (Lygus) Thrips Whiteflies	½ pound (8 oz) (226.8 g)	Apply for control of existing populations. The minimum spray interval for repeat applications is 3 days.	Apply this product in 100 to 200 gallons of water per acre. Spray individual juvenile or non-bearing trees for coverage with total application not to exceed specified rate in pounds per acre. Length of residual activity will depend upon spray coverage and the amount of moisture following application.	Do not allow livestock to graze treated areas.  DO NOT HARVEST citrus for one year after treatment.
	Citrus Blackfly*	½ to ¾ pound (8- 12 oz) (226.8 to 340.2 g)	The high rate should be used when a heavy infestation of Citrus Blackfly is present. Begin applications when eggs or adults first appear. The minimum spray interval for repeat applications is 7 days.		

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	Ants (excluding Fire, Carpenter, Harvester, and Pharaoh*)	Foliar Spray ¼ lb (12 oz) (340.2 g)	Apply for control of existing populations	Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.
	Ants (excluding Carpenter and Pharaoh*)	Mound Treatment – Drench Method: Mix ¼ ounce in 5 gallons of water. Apply 1 gallon of mix to each mound area by sprinkling mound until it is wet and treat a four (4) foot diameter circle around the mound.		

\*Not registered in CA for control of Citrus Blackfly and Harvester Ants.

**NURSERY STOCK (NON-BEARING DECIDUOUS FRUIT TREES, NUT TREES AND VINES IN NURSERY FIELDS OR NON-BEARING ORCHARDS.)**

PLANTS	INSECTS	AMOUNT OF PRODUCT PER ACRE	APPLICATION TIMING	APPLICATION DIRECTIONS	RESTRICTIONS
<b>Nuresery Stock (Non-bearing Deciduous Fruit Trees, Nut Trees, Vines)</b> Almond Apricot Apple Cherry Kiwi Pear Pistachio Plum Prune Walnut	Aphids Plant Bugs (Lygus) Thrips	½ to 1 lb (8 – 16 oz) (226.8 to 453.6 g)	Apply as needed for control of existing populations. The minimum spray interval for repeat applications is 14 days.	Dilute in 50 to 200 gallons of water per acre and spray using ground equipment.	For application only to non-bearing trees and vines in nursery fields or in non-bearing orchards. Do not apply to interplants or single trees in a bearing orchard. Do not harvest any fruit from sprayed trees for one-year after application. Do not allow livestock to graze treated areas.

**SPECIALTY USES – NON CROP AREAS**

PLANTS	INSECTS	AMOUNT OF PRODUCT PER ACRE	APPLICATION DIRECTIONS	RESTRICTIONS
Non Crop Areas (Field borders, fencerows, roadsides, ditchbanks, and borrow pits)	Grasshoppers	¼ lb (4 oz) (113.4 g)	For early to mid-season application to grasshoppers in field borders, fencerows, roadsides, ditchbanks and borrow pits  Apply in 10 to 20 gallons of water per acre and spray using ground equipment. Use the higher volumes when spraying heavier foliage.	Do not graze or feed vegetation cut from treated areas.
	Fire Ants and Harvester Ants*	Use mound treatment- Drench Method: Mix ¼ ounce in 5 gallons of water. Apply 1 gallon of mix to each mound area by sprinkling mound until it is wet and treat a four (4) foot diameter circle around the mound.	For best results, apply in the early morning or late afternoon when the ants are most active.  Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.  Grass in treated area may be injured.	Do not treat mound more than once per season.

\*Not registered in CA for control of Harvester Ants.



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**SPECIALTY USES – CONTAINER GROWN NURSERY STOCK (Arborvitae, Azalea, Camellia, Rhododendron, Roses, Viburnum, and Yew)**

PLANTS	INSECTS	AMOUNT OF PRODUCT PER ACRE	APPLICATION TIMING	APPLICATION DIRECTIONS
Container Grown Nursery Stock Arborvitae Azalea Camellia Rhododendron Roses Viburnum Yew	Black Vine Weevil, Strawberry Root Weevil	¾ lb (12 oz) (334.2 g)	Application should be made by mid-September for greenhouse stock and by mid-October for outdoor stock. Consult your local county extension agent for information on the identification and control of root weevils on ornamentals. The minimum spray interval for repeat applications is 7 days.	Use the specified amount per 100 gallons of water and thoroughly drench the root system.
	Ants (excluding fire, harvester, carpenter, and pharaoh)	¾ lb (12 oz) (334.2 g)	Apply as needed to control the pest. The minimum spray interval for repeat applications is 7 days.	

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**ORNAMENTAL TREES AND SHRUBS - SOIL APPLICATION**

PLANTS	INSECTS	AMOUNT OF PRODUCT	APPLICATION TIMING	APPLICATION DIRECTIONS	RESTRICTIONS		
Ornamental Trees and Shrubs	Aphids	<b>For trees up to 15 inches in trunk diameter (DBH) use 1/5 oz (5.7 g) per DBH inch One 10 oz packet will treat 50 inches of trunk diameter (DBH)</b>	Make applications to actively growing plants just prior to or when insects first appear.	For optimal uptake, irrigate the treated area after treatment to promote absorption into the root system. Applications to dry soil may decrease performance.  Rainbow Treecare Scientific Advancements does not recommend applications be made to Huckleberry, Balm of Gilead, Cottonwood, Lombardy Poplar, and Viburnum suspensum.  <b>Caution:</b> Phytotoxicity has occurred on the following crabapple varieties: Hopa, Ichonoski, Malusfloribunda, Pink Perfection, Red Wine, and Snow Cloud.	Do not apply more than once per month.  Do not apply to areas where food crops are grown (i.e., vegetable gardens, fruit trees, berry vines, etc.), children's play areas, or animal runs.		
	Bagworm						
	Black vine weevil						
	Budworm						
	Cankerworm						
	Carpenterworm						
	Cuban Laurel Thrips						
	Gall Forming Insects						
	Gypsy Moth (larvae)						
	Japanese Beetle						
	Lacebugs						
	Leaf Beetles					<b>For trees 15 DBH inches or greater use 1/5 oz (5.7 g) to 2/5 oz (11.3 g) per DBH inch. One 10 oz packet will treat 25 to 50 inches of trunk diameter (D.B.H)</b>	Do not apply more than 5 lb. of product per acre per application.
	Leafhoppers						
	Leafminers						
	Leafrollers						
	Leaf-tier (larvae)						
	Lepidoptera (larvae)						
	Loopers						
	Maple Shoot Moth						
	Oakworm						
	Pine Coneworm						
	Pine Tip Moth (larvae)						
	Plant bugs						
	Sawflies	Dilute 1 packet (10 oz) in up to 25 gallons of water.			Do not apply more than 6 lbs of product per acre per year.		
	Scales						
	Spider Mites						
Tent Caterpillar							
Tiger moth (larvae)							
Tussock Moth (larvae)							
Webworm							
Winter moth (larvae)							
Whitefly							
Zimmerman Pine Moth (larvae)							

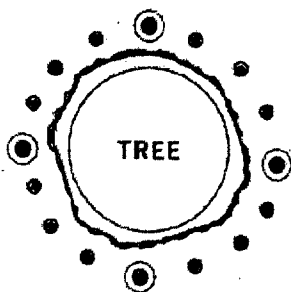
**SOIL APPLICATION METHODS**

Pull back landscape mulch, landscape fabric and surface organic matter prior to making soil applications to ensure solution is delivered to the mineral soil.

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Measure the diameter of the tree at breast height (DBH), 4'6" above the soil line. For multi-stemmed trees and shrubs, use the cumulative diameter of individual stems at soil line instead of DBH.

**Basal Soil Injection:** Mix required dosage in sufficient water to inject an equal amount of solution in each hole. For trees less than 8 inches DBH, use a minimum of 4 injection sites per tree. Space injection sites evenly around the base of the tree no more than 12 inches out from the base. Maintain a low pressure and inject into the mineral soil to a depth of two (2) to six (6) inches. Dilution rate may vary depending on equipment used and tree size. Refer to the injector equipment instructions for guidance.



● Inject these locations first then evenly distribute the remaining solution

**Grid System:** For trees less than 15 DBH inches, use 1/5 oz (5.7g) per 100 sq. ft. of area under the dripline of the trees or shrubs. Dilute ¼ lb (4 oz) (113.4 g) of product in 8 gallons of water to treat 2000 sq. ft. of area under the dripline of the tree or shrub. For trees 15 DBH inches or greater, use 1/5 oz (5.7g) to 2/5 oz (11.4 g) per 100 sq. ft. of area under the dripline of the trees or shrubs. Dilute ¼ lb (4 oz) (113.4 g) to ½ lb (8 oz) (226.8 g) of product in 8 gallons of water to treat 2000 sq. ft. of area under the dripline of the tree or shrub. Make a minimum of four (4) injections per 25 sq. ft. of area under the tree or shrub, using a grid pattern. Apply at least six (6) oz of dilute solution per injection site. Maintain a low pressure and inject to a depth of six (6) inches.

**ORNAMENTAL TREES AND SHRUBS – FOLIAR SPRAY – Maximum single application rate is 1.0 lb active ingredient per acre.**

PLANTS	INSECTS	AMOUNT OF PRODUCT PER 100 GALLONS	APPLICATION TIMING	APPLICATION DIRECTIONS	RESTRICTIONS
Ornamental Trees and Shrubs (Except Flowering Crabapple)	Aphids Bagworms Birch Leafminer Lace Bugs Leafrollers Tent Caterpillars	¼ lb (4 oz) (113.4 g)	Begin treatments when insects first appear. Repeat applications every 2 weeks as needed	Apply as a full coverage spray using a hydraulic sprayer. Rainbow Treecare does not recommend applications be made to Huckleberry, Balm of Gilead, Cottonwood, Lombardy Poplar, and Viburnum suspensum.	
	Douglas Fir Tussock	½ lb (8 oz)			

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Moth Larvae Gypsy Moth Larvae* Webworms	(226.8 g)		For nursery crops, spray only a few plants and observe for 2 weeks and evaluate for phytotoxicity before treating the entire crop.
Scale (Crawlers)	½ lb (8oz) (226.8g)	Begin treatments when crawlers first appear. Repeat applications every 2 weeks as needed to achieve control.	The use of a sticker improves control of gypsy moth larvae. <b>*Mist blower application:</b> Adjust rates to 1 lb per 100 gallons of water for Gypsy Moth control. Adjust rate to 3/4lb per 100 gallons of water for tent caterpillar control.
Ponderosa Pine Needle Miner	½ lb (8oz) (226.8g)	<b>Time of application is important. Consult your County Extension Agent for proper timing. Repeat applications every 2 weeks as needed</b>	<b>Apply as a full coverage spray using a hydraulic sprayer.</b>
California Oakworm Cankerworms (Spring and Fall)	¼ lb to ½ lb (4 to 8 oz) (113.4 to 226.8g)	<b>Begin treatments when insects first appear. Use the higher rate when larger larvae are present. Repeat applications every 2 weeks as needed</b>	
Nantucket Pine Tip Moth Larvae	¾ lb (12 oz) (340.2 g)	Time of application is important. Consult your County Extension Agent for proper timing. Repeat applications will be necessary for subsequent generations. Repeat applications every 2 weeks as needed	Apply as a full coverage spray using a hydraulic sprayer.
Root Weevil Adults	¾ lb	Begin treatments when feeding	Apply as a full coverage spray using

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		(12 oz) (340.2 g)	damage first appears. Repeat applications every four weeks until the first heavy frost may be necessary for complete foliage protection.	a hydraulic sprayer.	
	Box Elder Bugs Budworms Leafhoppers Sawflies	¼ lb (12 oz) (340.2 g)	Begin treatments when insects first appear. Repeat applications every 2 weeks as needed	Apply as a full coverage spray using a hydraulic sprayer.	
	Japanese Beetles Elm Leaf Beetles	1 lb (16 oz) (453.6 g)	Begin treatments when insects first appear. Repeat applications every 2 weeks as needed.		
Douglas Fir (Christmas Trees)	Douglas Fir Needle Midge	½ lb (8 oz) (226.8 g)	Application should be made no more than 2 weeks prior to bud burst. For additional pest management information, consult your County Extension Agent The minimum spray intervals for repeat applications is 3 days for rates up to and including 0.5 lb ai/acre and 7 days for rates exceeding 0.5 lb.ai/acre.	Apply by ground as a full coverage spray in 100 gallons of water using a hydraulic sprayer.	
Flowering Crabapples	Aphids Leafrollers Tent Caterpillars	¼ lb (4 oz) (113.4 g)	Begin treatments as the insects begin to appear. Repeat applications every 4 weeks as needed	Apply as a full coverage spray using a hydraulic sprayer.  <b>Caution:</b> Phytotoxicity has	Do not apply more often than 3 times in a growing season at a four (4) week interval  Do not apply by low pressure

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				occurred on the following crabapple varieties: Hopa, Ichonoski, Malusfloribunda, Pink Perfection, Red Wine, and Snow Cloud.	hand wand.
Crape Myrtle	Aphids	2 – 3 level tablespoons (0.6 to 0.9 oz) (17 to 25.5 g) per 1 tablespoon of water	As aphids begin to appear. The minimum spray intervals for repeat applications is 3 days for rates up to and including 0.5 lb ai/acre and 7 days for rates exceeding 0.5 lb.ai/acre.	Make a paint-on slurry by mixing. Remove the loose bark from the trunk areas to be treated. Completely paint a band around each trunk to a width twice its diameter. Applications made to trunks 6 to 8 inches above the ground and below the point where branching begins. For multi-trunk plants, make treatments as low as possible within the 6 to 12 inches of the ground.	

**GOLF COURSES AND SOD FARM TURFGRASS RESTRICTIONS**

- Do not allow livestock to graze treated areas
- Do not feed treated grass to livestock.
- Do not apply by air
- Do not apply more than 4 1/8 lbs product/acre (4.0 lbs ai/acre) to golf courses in a single application.
- Do not apply more than 3.1 lbs product/acre (3.0 lbs ai/acre) to sod farm turfgrass in a single application.
- The minimum spray intervals for repeat applications is 3 days for application rates up to and including 0.5 lb ai/acre and 7 days for rates exceeding 0.5 lb ai/acre.
- A 3-day pre-harvest (PHI) for harvesting sod.

PLANTS	INSECTS	AMOUNT OF PRODUCT PER 1000 Sq. Ft.	APPLICATION TIMING	APPLICATION DIRECTIONS	RESTRICTIONS
Turf (Golf Course and	Fall Armyworm Yellow Striped	0.4 to 0.9 oz (17 to 25.5 g)	Begin treatments when insects first appear. Repeat applications	Dilute in 5 gallons of water to treat 1000 sq. ft.	

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Sod Farm Turfgrass)	Armyworm Southern		every 2 weeks as needed.		
	Armyworm				
	Cutworm	0.9 to 1.8 oz (25.5 to 51 g)			
	Chinch Bugs	0.9 to 1.8 oz (25.5 to 51 g)	Apply every 10 to 14 days as needed for knockdown of adult populations.	Dilute product in 1 to 15 gallons of water to treat 1000 sq. ft.	
	Sod Webworm (Crambus spp.)	0.4 to 0.8 oz (17 to 34 g)	Begin applications when larvae first appear. Use the higher rate when quick knockdown is needed or with heavy populations. Reapply every 7 days as needed. Do not repeat at more than 1 week intervals.		
	Leafhopper	¾ oz (21.3 g)			
	Mole Crickets* Spittlebug*	0.8 to 1.4 oz (22.7 to 39.7 g)	Begin applications when insects first appear. More than one application may be needed throughout the growing season to obtain knockdown of existing populations. Use the higher rate when for heavy populations.	Dilute product in 1 to 15 gallons of water to treat 1000 sq. ft.  Apply during late afternoon or early evening hours and following irrigation. Do not irrigate after application. The use of a lemon fragrance in the spray mix may enhance control by acting as a flushing agent and thus provide increased mole cricket contact. The following products have been shown to be effective flushing agents: Lemon Joy and Lemon Palmolive. The use rate for these lemon-scented products is 2 teaspoons per gallon of water for small total mix volumes or 6 fl. oz. per 50 gallons of water for large total mix volumes.	
	Greenbug (Schizaphis)	0.4 oz (17 g)	Begin applications when insects first appear. Reapply	Dilute product in 4 gallons of water to treat 1000 sq. ft.	Do not mow turfgrass for at least 24 hours

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	graminun) Grasshoppers		every 7 days as needed.		after application.
	Black Turfgrass Ataenius*	0.9 to 1.4 oz (25.5 to 39.7 g)	Begin applications when insects or their damage first appear.	Dilute product in 5 gallons of water to treat 1000 sq. ft. Irrigate lightly after application (not more than ½ inch). Use the higher rate for severe infestations.	
Dichondra (Plant site for Golf Course and Sod Farm Turfgrass)	Cutworm Flea Beetle Southern Armyworm Yellow Striped Armyworm	0.8 to 1.4 oz (22.7 to 39.7 g)	Begin applications when insects first appear. Reapply every 2 weeks as needed.	Dilute product in 15 gallons of water to treat 1000 sq. ft.	

\*Not registered in CA for control of Mole Crickets, Spittlebug, or Black Turfgrass Ataenius.

**MOUND TREATMENT OF FIRE ANTS AND HARVESTER ANTS IN  
 TURFGRASS**

**DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS. DO NOT FEED TREATED  
 GRASS TO LIVESTOCK.**

PLANTS	INSECTS	AMOUNT OF PRODUCT	APPLICATION TIMING	APPLICATION DIRECTIONS	RESTRICTIONS
Turfgrass Residential, Recreational, and Commercial Turf	Imported Fire Ants and Harvester Ants*	<b>Mound Treatment – Drench Method:</b> Use ¾ oz (21.3 g) of product in 5 gallons of water. Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound.	For best results, apply the material in the early morning or late afternoon when the ants are most active.  Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.	Grass in treated areas may be injured.	Do not treat mound more than once per season.

\*Not registered in CA for control of Harvester Ants



17/22

**OUTDOOR AND PERIMETER SPRAY**

Location	INSECTS	AMOUNT OF PRODUCT PER 1 (one) GALLON	APPLICATION TIMING	APPLICATION DIRECTIONS	RESTRICTIONS
Outdoor and Perimeter Area	Wasp	1.2 oz (34 g)	Make treatments early in the morning or late in the evening, as wasps are less active at these times.	Apply as a spot treatment to the nest, nest entrance, and surrounding areas where the wasps may land.	Not for use on residential turfgrass
	Ants (excluding Imported Fire, Carpenter, Pharoh, and Harvester Ants*) Crickets Cockroaches Earwigs Pillbugs	1.2 oz (34 g)	Begin applications when insects or their damage first appear.	Use specified amount of product in one (1) gallon of water.  Apply to a band of soil 6 to 10 feet adjacent to the structure and to a height of 2 to 3 feet on the foundation where pests may be active or may find entrance. Also apply as a residual spray or with a paint brush to surfaces of buildings, window frames, shutters, entryways, screens, eaves, patios, garages, carports, around garage areas and other areas where these pests congregate.	

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**OUTDOOR FLORAL CROPS AND GROUND COVERS**

PLANTS	INSECTS	AMOUNT OF PRODUCT PER 100 GALLONS	APPLICATION TIMING	APPLICATION DIRECTIONS	RESTRICTIONS
Chrysanthemums Dahlias Daisies Easter Lily Gladioli Gypsophila Pachysandra Pansy Peony Roses Sedum Statice Strawflower Yarrow Zinnia	Aphids Thrips Lygus	½ lb (8oz) (226.8g)  The maximum amount of product to be applied on a per acre basis is not to exceed 0.75 lb ai/acre for plants grown for cut flower production and 1.0 lb ai/acre for all other plants.	Begin treatments when insects first appear. Repeat applications every 14 days as needed to achieve control.	Apply the specified amount of product in 100 gallons of water using a hydraulic sprayer.  Multiple applications may cause slight tip burn or marginal leaf necrosis on some varieties. Test on a few plants to determine varietal susceptibility.	Do not apply by low pressure hand wand.
Boston Ivy Roses	Japanese Beetles	1 lb (16 oz) (453.6 g)  The maximum amount of product to be applied on a per acre basis is not to exceed 0.75 lb ai/acre for plants grown for cut flower production and 1.0 lb ai/acre for all other plants.	Begin treatments when insects first appear. Repeat applications every 2 weeks as needed.		

19/22

**COMMERCIAL GREENHOUSE FLORAL AND FOLIAGE PLANT CROPS**

**Not for use in residential greenhouses**

PLANTS	INSECTS	AMOUNT OF PRODUCT PER 100 GALLONS	APPLICATION TIMING	APPLICATION DIRECTIONS
Roses	Leafrollers	<p>½ to ¾ lb                      (8 to 12 oz)                      (226.8 to 340.2 g)</p> <p>The maximum amount of product to be applied on a per acre basis is not to exceed 0.75 lb ai/acre for plants grown for cut flower production and 1.0 lb ai/acre for all other plants.</p>	<p>Begin treatments when insects first appear. Use the higher rate when large larvae are present. Repeat applications every 5 days as needed.</p>	<p>Apply the specified amount of product in 100 gallons of water using a hydraulic sprayer.</p>
<p>Foliage Plants                      Anthuriums                      Cacti                      Orchids                      Poinsettia</p>	<p>Aphids                      Mealybugs                      Scale (Crawlers)                      Thrips                      Whiteflies</p>	<p>½ lb                      (8 oz)                      (226.8 g)</p> <p>The maximum amount of product to be applied on a per acre basis is not to exceed 0.75 lb ai/acre for plants grown for cut flower production and 1.0 lb ai/acre for all other plants.</p>	<p>Begin treatments when insects first appear. A repeat application, at a 2 week interval, may be necessary for control of mealybugs, Scale crawlers, and whiteflies.</p>	<p>Apply the specified amount of product in 100 gallons of water using a hydraulic sprayer. The addition of a wetting agent may be required on difficult to wet foliage.</p> <p>Caution: Phytotoxicity has occurred on the following foliage plants: Bletchum gibbum, Cissus Antarctica, Ficus triangularis, Fittonia verschaffelii, Maranta leuconeura kerchoveana, Pachystachya lutea, Plectanthus australis, Polypodium aureus, Polystichum, Pteris ensiformis, Tolmiea menziesii.</p> <p>As a precaution, spray only a few plants and wait for 2 weeks to observe any varietal phytotoxicity. Application on poinsettias after bract formation may result in Phytotoxicity on certain varieties.</p>

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<p>Carnations          Chrysanthemums          Roses</p>	<p>Aphids          Thrips</p>	<p>½ lb          (8 oz)          (226.8 g)</p> <p>The maximum amount of product to be applied on a per acre basis is not to exceed 0.75 lb ai/acre for plants grown for cut flower production and 1.0 lb ai/acre for all other plants.</p>	<p>Begin treatments when aphids first appear. As the thrips first appear or at the tight flower bud stage.</p> <p>Repeat applications every 5 days as needed. Caution: Applications to Carnations and Chrysanthemums more than once every 28 days may cause phytotoxicity.</p>	<p>Apply the specified amount of product in 100 gallons of water using a hydraulic sprayer.</p> <p>Caution: Phytotoxicity has occurred on the following Chrysanthemum varieties: Albatross, Bonnie Jean, Dixie, Garland, Gem, Iceberg, Pride, Showoff, Statesman, Tally Ho, Westward Ho and Wild Honey.</p> <p>As a precaution, spray only a few plants and wait for 2 weeks to observe any varietal phytotoxicity. Applications to Chrysanthemums and Roses with open flowers may result in flower damage.</p>
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**Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.**

**STORAGE AND DISPOSAL**

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

**STORAGE**

Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in a cool, dry place. Protect from excessive heat. Do not contaminate food or foodstuffs. Do not store or transport near feed or food. For help with any spill, leak, fire or exposure involving this material, call CHEMTREC at 1-800-424-9300

**PESTICIDE DISPOSAL**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited.

**CONTAINER DISPOSAL**

Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling, if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Note: This product is sold by weight. Settling may have occurred during shipment.

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**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 or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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Lepitect™ Systemic Tree & Ornamental Insecticide  
EPA Reg. No. 74779-6

December 3, 2009

**OPTIONAL MARKETING CLAIMS**

Committed to advancing the science of tree care.

Committed to bringing tools inside protocols that get predictable results for the arborist practitioner.

