



U.S. ENVIRONMENTAL PROTECTION AGENCY  
 Office of Pesticide Programs  
 Registration Division (117505C)  
 401 "M" St., S.W  
 Washington, D.C. 20460

EPA Reg. Number:  
 1381-206

Date of Issuance:  
 JUN 20 2006

Term of Issuance: Conditional

Name of Pesticide Product:  
 Gallant 1.6L

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Mr. Gary Halvorson  
 Agriliance, LLC.  
 P.O. Box 64089  
 St. Paul, MN 55164-0089

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/re-registered 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). Once a pesticide is registered, however, it is not regarded as permanently acceptable. Registration does not eliminate the need for continual reassessment of pesticides. If the Agency determines that, at any time, additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under FIFRA section (3)(c)(2)(B).

1. Revise the EPA Registration Number to read, as EPA Reg. No. "1381-206"

Signature of Approving Official

Dani Daniel  
 Insecticide-Rodenticide Branch  
 Registration Division (7505P)

Date

JUN 20 2006

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2. You claim that this label is a 100% repack of EPA Registration Number 264-763. A 100% repack is a product whose product label is an exact copy of the parent product label. In examining the submitted label (1381-ENA), can not be call a 100% repack, but rather a substantially similar label. However, both 100 % repacks and substantially similar labels must maintain all restrictions, application directions and use sites. On the other hand, claims and use sites that are not desired to be support maybe eliminated, but additional sites and claims can not take the original claims and use sites place. You may even delete some methods of application that you wish not to support, but additional methods can not take the place of the original methods. In order to make this label a 100% repack, rewrite it to look and read like the parent label, which is 264-763. However, if you wish to keep this product a substantially similar product make the following changes:
3. Resubmit a completed confidential statement of formula.
4. Under each of the crops listed, replace the "Applications" instructions as it appears on the parent label. For example: "Apply specified dosage of the chemical as a broadcast or directed spray to infested area..."
5. On page 9 of your label under the crop "Legumes Vegetable" correct the spelling from "Shelled Peat" to shelled pea.
6. The following crops should read "Minimum" interval between applications whether substantially similar or 100% repack because these are what the Agency has decided.
  - Bushberry 7 days
  - Citrus 10 days
  - Grape 14 days
  - Hop 21 days
  - Pecans 10 days
  - Topical Fruit 10 days
  - Pome Fruit 10 days
  - Poplar/Cotton Wood 10 days
  - Christmas Tree 7 days
7. Submit to the Agency a one year storage stability and corrosion characteristics study.

Submit two copies of your final printed labeling before you release the product for shipment. A stamped copy of the label is enclosed for your records. If you have any questions regarding this notice, please contact me at (703) 305-5409.

Enclosure:

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### GALLANT 1.6L

For control of certain insects infesting various crops.

ACTIVE INGREDIENT:	
Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine . . . . .	17.4%
INERT INGREDIENTS: . . . . .	82.6%
TOTAL: . . . . .	100.0%

Contains 1.6 pounds of imidacloprid per gallon.

Shake well before using.

### KEEP OUT OF REACH OF CHILDREN

### CAUTION

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> <li>• Call a 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 a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
IF IN EYES	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
In case of emergency call CHEMTREC toll free at 1-800-424-9300. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.	
Note To Physician: No specific antidote is available. Treat the patient symptomatically.	

### PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing.

EPA Reg. No. 1381-

Distributed By:  
 Agriliance, LLC  
 P.O. Box 64089  
 St. Paul, MN 55164-0089

**ACCEPTED**  
**WITH COMMENTS**  
 In EPA Letter Dated:

JUN 20 2006

Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act,  
 as amended, for the pesticide  
 registered under EPA Reg. No.  
1381-206

EPA Est. No.  
 NET CONTENTS:

02/06

## PERSONAL PROTECTIVE EQUIPMENT

Applicators and Other Handlers Must Wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or viton.
- Shoes plus socks

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

## ENGINEERING CONTROLS STATEMENTS

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

## USER SAFETY RECOMMENDATIONS

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing 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

Do not apply directly to water, areas where surface water is present or to intertidal areas below the mean high water mark. 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 or weeds if bees are visiting the treatment area. This product is toxic to wildlife and highly toxic to aquatic invertebrates.

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

**OBSERVE THE FOLLOWING PRECAUTIONS WHEN MIXING AND APPLYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS, RIVERS, PERMANENT STREAMS, MARSHES OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.**

## SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

### Mixing and Loading Requirements

To avoid potential contamination of groundwater, the use of a properly designed and maintained containment pad for mixing and loading of any pesticide into application equipment is recommended. If containment pad is not used, maintain a minimum distance of 25 feet between mixing and loading areas and potential surface to groundwater conduits such as field sumps, uncased well head, sinkholes or field drains

#### For Aerial Applications:

The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of the wing span or rotor diameter.

#### Importance of Droplet Size

An important factor influencing drift is droplet size. Small droplets (<150 - 200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, applications should be made to deliver the largest droplet spectrum that provides sufficient control and coverage. Formation of very small droplets may be minimized by appropriate nozzle selection.

#### Wind Speed Restrictions

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size, canopy and equipment specifications determine drift potential at any given wind speed. Do not apply when winds are greater than 15 mph and avoid gusty and windless conditions. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

#### Restrictions During Temperature Inversions

Do not make aerial or ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however if fog is not present, inversions can also be identified by the movement of smoke from a ground source. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical mixing.

#### Airblast (Air Assist) Specific Recommendations for Tree Crops and Vineyards

Airblast sprayers carry droplets into the canopy of trees/vines via a radially, or laterally directed air stream. The following specific drift management practices should be followed:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy;
- Block off upward pointed nozzles when there is no overhanging canopy;
- Use only enough air volume to penetrate the canopy and provide good coverage;
- Do not allow the spray to go beyond the edge of the cultivated area (i.e., turn off sprayer when turning at end rows);
- Only spray inward, toward the orchard or vineyard, for applications to the outside rows.

#### No-Spray Zone Requirements for Foliar Applications

Do not apply by ground within 25 feet, or by air within 150 feet of lakes; reservoirs; rivers; permanent streams, marshes or natural ponds; estuaries and commercial fish farm ponds.

#### Runoff Management

Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip. When used on erodible soils, best management practices for minimizing runoff should be employed. Consult your local Natural Resources Conservation Service for recommendations in your use area.

#### Endangered Species Notice

Under the Endangered Species Act, it is a Federal Offense to use any pesticide in a manner that results in the death of a member of an endangered species. Consult your local county bulletin, County Extension Agent, or Pesticide State Lead Agency for information concerning endangered species in your area

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**Resistance Management**

Some insects may develop resistance to imidacloprid after repeated use. Users should incorporate resistance management practices such as rotating classes of insecticides when possible.

Insect species that have acquired a tolerance to imidacloprid and other neonicotinoid (Group 4A) insecticides may become dominant if Group 4A are used repeatedly. This can eventually result in the loss of this class of insecticides as a viable control.

Do not make over three consecutive applications of IMIDACLOPRID 1.6FL AG and/or other Group 4A neonicotinoid class products having a similar mode of action. Following a neonicotinoid series of treatments, Albaugh recommends rotation to application with products that control with a different mode of action before making more applications of neonicotinoid products. Using a rotation of insecticide classes approach, along with other IPM practices, is an effective strategy for minimizing insect pest's resistance to this class of chemistry.

Soil applications of neonicotinoid class insecticides to crops should be factored into the resistance management plans for foliar applications to the crops.

Other Group 4A, neonicotinoid products labeled for foliar treatments include: Actara, Assail, CALYPSO®, Centric, Intruder. LEVERAGE® and TRIMAX®. Other 4A Group, neonicotinoid products used as soil treatment include: ADMIRE® and Platinum.

Additional information on insect resistance management can be obtained from your local extension specialist, certified crop advisor, product manufacturer or visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://irac-online.org/>.

**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.

**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.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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 made of any waterproof material such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or viton, and shoes plus socks.

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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

### APPLICATION RECOMMENDATIONS

Apply GALLANT 1.6L as a directed or broadcast foliar spray. Thorough coverage of foliage without runoff is required for maximum insecticidal efficacy. Use of adequate spray volumes and correctly calibrated application equipment is critical. Use of a spray adjuvant may enhance thorough coverage. Lack of adequate coverage and retention of GALLANT 1.6L on foliage and fruit can delay or lessen insect control. GALLANT 1.6L may be applied with ground or aerial application equipment that has been properly calibrated.

Minimum recommended spray volumes (unless otherwise specified on crop sections) are:

- 10 gallons/Acre by ground application
- 5 gallons/Acre through aerial equipment.

GALLANT 1.6L may also be applied by overhead chemigation (see CHEMIGATION DIRECTIONS FOR USE section below) if allowed in crop specific recommended application section.

GALLANT 1.6L application to crops grown for production of true seed intended for private or commercial planting may be allowed under State specific supplemental labeling. Extreme caution should be taken to minimize exposure of GALLANT 1.6L to honey bees and other pollinators. Do not use GALLANT 1.6L on crops requiring bee pollination during bloom and a minimum of 10 days prior to bloom. Additional information on GALLANT 1.6L uses for these crops and other questions may be obtained from the Cooperative Extension Service, PCAs, consultants or local Albaugh representatives.

Do not exceed application of more than 0.5 lbs. active ingredient per acre, per crop season, regardless of formulation or method of application, unless specified within a crop specific recommended applications section for a given crop.

#### Mixing Instructions

1. Add a 50% of the required amount of water to the spray tank
2. Begin agitation
3. Add labeled rate of GALLANT 1.6L
4. Add balance of water needed.

Maintain sufficient agitation during both mixing and application. GALLANT 1.6L may be tank mixed with other pesticides and/or fertilizer solutions. Refer to Compatibility Note below. When tank mixing GALLANT 1.6L with other pesticides, prepare the tank mixture as recommended above and follow suggested Mixing Order below.

#### Mixing Order for Tank Mixes

1. Wettable powders
2. GALLANT 1.6L, or other flowables second,
3. Emulsifiable concentrates

Maintain good agitation as each pesticide is added. Do not add the next product until the previous is thoroughly mixed. If a fertilizer solution is added, a fertilizer pesticide compatibility agent may be needed. Maintain constant agitation during both mixing and application to ensure uniformity of spray mixture.

#### Compatibility Note

Unless the applicator has prior knowledge of the compatibility of the intended tank mixture, Albaugh recommends a small scale test by adding proportionate amounts of each ingredient in the appropriate order, to a clear pint or quart sized jar. Cap and shake for 5 minutes, then let set for 5 minutes. Any visual indication of poor mixing or formation of precipitates that cannot be easily re-dispersed indicates incompatibility and the mixture that should not be used.

### CHEMIGATION DIRECTIONS FOR USE

Refer to GENERAL DIRECTIONS FOR USE section before proceeding with chemigation application.

#### Types of Irrigation Systems

Chemigation applications of GALLANT 1.6L may be made to crops through overhead sprinkler chemigation systems if specified in crop-specific recommendations sections. Do not apply GALLANT 1.6L through any other type of irrigation system.

#### Water Volume

GALLANT 1.6L chemigation applications should be made as concentrated as possible. Retention of GALLANT 1.6L on target site of insect infestation is necessary for optimum activity. Chemigation of GALLANT 1.6L in water volumes exceeding 0.10 inches/Acre are not recommended.

#### Uniform Water Distribution and System Calibration

The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

#### Chemigation Monitoring

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.

#### Drift

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

#### Required System Safety Devices

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 contain a functional automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. 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 normally 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



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pesticides and capable of being fitted with a system interlock.

**Using Water from Public Water Systems**

**DO NOT APPLY GALLANT 1.6L THROUGH ANY IRRIGATION SYSTEM PHYSICALLY CONNECTED TO A PUBLIC WATER SYSTEM.** Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 Individuals daily at least 60 days out of the year. GALLANT 1.6L may be applied through irrigation systems that may be supplied by a public water system only if the water from the public water system is discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

An irrigation system using water supplied from a public water system must also meet the following requirements. The pesticide injection pipeline must contain a functional automatic quick-closing check valve to prevent the flow of fluid toward the injection pump.

**ROTATIONAL CROPS\***

Treated areas may be replanted with any crop specified on an imidacloprid label, or any crop for which a tolerance exists for the active ingredient, as soon as practical following the last application. For crops not listed on an imidacloprid label, or for crops for which no tolerances for the active ingredient have been established, a 12-month plant-back interval should be observed.

PLANTBACK INTERVAL	COMMENT
Immediate Plant-back:	Any crop listed on this label plus the following crops not on this label: barley, canola, cardoon, Chinese celery, corn (field, sweet and pop), Celtuce, cranberry*, cucurbits, Florence fennel, leafy petioles*, mustard seed*, rapeseed, rhubarb, sorghum, sugar beet, Swiss chard and wheat.
30-Day Plant-back:	Cereals (including buckwheat, millet, oats, rice, rye and triticale), soybeans, safflower
12-Month Plant-back:	All other crops

\*Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed.

**FIELD CROPS**

Apply as foliar spray at specified rate per acre when insect pressure reaches economic threshold . Uniform coverage is required to achieve best control and a spray adjuvant may help improve coverage. Two applications may be required to achieve control when initial insect populations are high. Retreatment should be based on field scout reports. GALLANT 1.6L may be tank mixed with other labeled insecticides to increase control or control pests not controlled by imidacloprid. Apply only through properly calibrated ground, aerial or chemigation application equipment insuring thorough coverage.

**COTTON**

For control of Aphids, Flea hoppers, Plant bugs (east of Rocky Mountains) and suppression of Lygus bug (west of Rocky Mountains) and Whiteflies apply 3.8 fluid ounces per acre as a broadcast or directed spray to infested area. Apply only through properly calibrated ground, aerial or chemigation application equipment insuring thorough coverage.

Notes and Restrictions for Cotton:

- Pre-Harvest Interval (PHI): 14 days
- Minimum interval between applications : 7 days
- Maximum GALLANT 1.6L allowed per season: 22 fluid ounces/Acre (0.28 lb. A/A)
- Maximum number of GALLANT 1.6L applications per crop season: 6
- Do not graze treated fields after any application of GALLANT 1.6L.

## **POTATO**

For control of Aphids, Colorado potato beetle, Flea beetles, Leafhoppers, Psyllids apply 3.8 fluid ounces per acre as a broadcast or directed spray to infested area. Apply only through properly calibrated ground, aerial or chemigation application equipment insuring thorough coverage.

Notes and Restrictions for Potatoes:

- Pre-Harvest Interval (PHI): 7 days
- Minimum Interval between applications: 7 days
- Maximum GALLANT 1.6L allowed per crop season: 15.0 fluid ounces/Acre (0.19 lb. AI/A)

## **TOBACCO**

For control of Aphids apply 2.0 to 4.0 fluid ounces per acre as a broadcast or directed spray to infested area. Use higher rate when insect pressure is heavy.

For control of Flea beetles and Japanese beetle apply 4.0 fluid ounces per acre as a broadcast or directed spray to infested area.

Notes and Restrictions for Tobacco:

- Pre-Harvest Interval (PHI): 14 days
- Minimum interval between applications : 7 days
- Maximum number of GALLANT 1.6L allowed per crop season: 22.0 fluid ounces/Acre (0.28 lb. AI/A)

Apply only through properly calibrated ground, aerial or chemigation application equipment insuring thorough coverage.

## **VEGETABLE and SMALL FRUIT CROPS**

Apply as foliar spray at specified rate per acre when insect pressure reaches economic threshold . Uniform coverage is required to achieve best control and a spray adjuvant may help improve coverage. Two applications may be required to achieve control when initial insect populations are high. Retreatment should be based on field scout reports. GALLANT 1.6L may be tank mixed with other labeled insecticides to increase control or control pests not controlled by imidacloprid.

Apply only through properly calibrated ground, aerial or chemigation application equipment insuring thorough coverage.

**FRUITING VEGETABLES** (Not for use on crops grown for seed unless allowed by state-specific supplemental labeling)

Eggplant, Ground cherry, Okra, Pepper (including bell, chili, cooking, pimento and sweet), Tomato, Pepinos, Tomatillo

For control of Aphids, Colorado potato beetle, Leafhoppers, Whiteflies apply 3.8 fluid ounces per acre. For control of Pepper weevil (Pepper only) apply 6.2 fluid ounces per acre. Make applications prior to a damaging population becoming established.

Notes and Restriction for Fruiting Vegetables:

- Pre-Harvest Interval (PHI): 0 days
- Minimum interval between applications: 5 days
- Maximum GALLANT 1.6L allowed per crop season: 18.8 fluid ounces/Acre (0.24 lb. AI/A)

Applications of GALLANT 1.6L must be part of a full-season resistance management program that uses alternate applications products from multiple classes of chemistry and different modes of action.

## **GLOBE ARTICHOKE**

For control of Aphids and Leafhoppers apply 4.0 to 10.0 fluid ounces per acre. Use higher rates when pest pressure more severe.

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Notes and Restrictions for Global Artichoke:

- Pre-Harvest Interval (PHI): 7 days
- Minimum interval between applications: 14 days
- Maximum GALLANT 1.6L allowed per crop season: 40.0 fluid ounces/Acre (0.50 lb. AI/A)

### **HEAD and STEM BRASSICA VEGETABLES<sup>2</sup>**

Broccoli, Broccoli raab (rapini), Brussels sprouts, Cabbage, Cauliflower, Cavalo broccoli, Chinese (gai Lon) broccoli, Chinese (bok choy) cabbage, Chinese (napa) cabbage, Chinese mustard (gai choy) cabbage, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens, Turnip (tops or leaves)

### **LEAFY VEGETABLES<sup>2</sup>**

Amaranth (leafy amaranth, Chinese spinach, tampala), Arugula (roquette), Chervil, Chrysanthemum (edible leaved and garland), Cilantro, Corn salad, Cress (garden), Cress (upland, yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Raddicchio (red chickory), Spinach (Including New Zealand and vine (Malabar spinach, Indian spinach)), Watercress (commercial production only). Applications must not be made to native cress growing in streams or other bodies of water), Watercress (upland)<sup>1</sup>

For control of Aphids, Flea beetles, Whiteflies apply 3.8 fluid ounces per acre.

Notes and Restrictions for Head and Stem Brassica Vegetables and Leafy Vegetables:

- Pre-Harvest Interval (PHI): 7 days
- Minimum interval between applications: 5 days
- Maximum GALLANT 1.6L allowed per crop season: 18.8 fluid ounces/Acre (0.23 lb. AI/A)

<sup>1</sup>Use not permitted in California unless otherwise directed by supplemental labeling.

<sup>2</sup>Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

### **LEGUMES VEGETABLES<sup>1</sup> (except soybean, dry)**

Edible Podded and Succulent Shelled Pea/ and Bean and Dried Shelled Pea and Bean  
Bean (Lupinus spp., includes grain lupin, sweet lupin, white lupin, and white sweet lupin)  
Bean (Phaseolus spp., includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean)  
Bean (vigna spp., includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, Southern pea, urd bean, yardlong bean)  
Pea (Pisum spp. Includes dwarf pea, edible pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snappea)  
Other Beans and Peas (Broad bean (fava), chickpea (garbanzo bean), Guar, Jackbean, Lablab bean (hyacinth bean, lentil, Pigeon pea, soybean (immature seed), Sword bean)

For control of Aphids, Leafhoppers, Whiteflies apply 3.5 fluid ounces per acre.

Note and Restrictions for Legume Vegetables:

- Pre-Harvest Interval (PHI): 7 days
- Minimum interval between applications: 7 days
- Maximum GALLANT 1.6L allowed per crop season: 10.5 fluid ounces/Acre (0.13 lb. AI/A)

<sup>1</sup>Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

### **ROOT, TUBEROUS and CORM VEGETABLES<sup>1</sup>**

Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Beet (garden)<sup>2</sup> Burdock (edible)<sup>2</sup>, Canna (edible, Queensland arrowroot), carrot<sup>2</sup>, Cassava (bitter & sweet)<sup>2</sup>, Celeriac<sup>2</sup>, Chayote (root), Chervil

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(turnip-rooted)<sup>3</sup>, Chickor/, Chufa, Dasheen (taro), Ginger, Ginseng, Horseradish, Leren, Parsley (turnip-rooted), Parsnip<sup>27</sup>, Radish<sup>3</sup>, Oriental radish (diakon)<sup>21</sup>, Rutabaga<sup>3</sup>, Salsify (black), Salsify (oyster plant), Salsify (Spanish), Skirret, Sweetpotato, Tanier (cocoyam), Tumeric, Turnip<sup>21</sup>, Yam bean (jicama, manioc pea), Yam (true)<sup>21</sup>

For recommended applications on potato see Field Crops section

For control of Aphids, Flea beetles, Leafhoppers, Whiteflies apply 3.5 fluid ounces per acre.

*Note and Restrictions for Root Tuberous and Corm Vegetables:*

- Pre-Harvest Interval (PHI): 7 days
- Minimum interval between applications: 5 days
- Maximum GALLANT 1.6L allowed per crop season: 3.5 fluid ounces/Acre on radish; 10.5 fluid ounces/Acre (0.13 lb. AI/A) on other crops.
- Maximum GALLANT 1.6L applications per crop season: 1 on radish; 3 on other crops

<sup>1</sup>Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

<sup>2</sup>Tops or greens from these crops may be utilized for food or feed.

### **STRAWBERRY**

For control of Aphids, Spittlebugs, Whiteflies apply 3.8 fluid ounces per acre.

*Notes and Restrictions for Strawberries:*

- Pre-Harvest Interval (PHI): 7 days
- Maximum interval between applications: 5 days
- Maximum GALLANT 1.6L allowed per crop season: 11.3 fluid ounces/Acre (0.14 lb. AI/A)
- Do not apply during bloom or within 10 days prior to bloom or when bees are actively foraging.

### **TREE, BUSH and VINE CROPS**

Apply as foliar spray at specified rate per acre when insect pressure reaches economic threshold. Uniform coverage is required to achieve best control and a spray adjuvant may help improve coverage. Two applications may be required to achieve control when initial insect populations are high. Retreatment should be based on field scout reports. GALLANT 1.6L may be tank mixed with other labeled insecticides to increase control or control pests not controlled by imidacloprid.

### **BUSHBERRY**

Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, Juneberry, Lingonberry, Salal

For control of Aphids and Leafhoppers/Sharpshooters apply 3.0 to 4.0 fluid ounces per acre. Use higher rates when pest pressure more severe.

For control of Japanese beetles (adults) and Thrips apply 6.0 to 8.0 fluid ounces per acre. Use higher rates when pest pressure more severe.

For control of Blueberry maggot apply 8.0 fluid ounces per acre.

*Notes and Restrictions for Bushberries:*

- Pre-Harvest Interval (PHI): 3 days
- Maximum interval between applications : 7 days
- Maximum GALLANT 1.6L allowed per crop season: 40.0 fluid ounces/Acre (0.5 lb. AI/A)
- Maximum number of GALLANT 1.6L applications per crop season: 5
- Maximum application volume (water): 20.0 GPA - ground; 5.0 GPA - aerial.
- Do not apply pre-bloom or during bloom or when bees are actively foraging.

### **CITRUS**

Calamondin, Citrus citron, Citrus hybrids (includes chironja, tangelo and tangor), Grapefruit, Kumquat,

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Lemon, Lime, Mandarin (tangerine), Pummelo, Orange (sweet and sour), Tangelo, Satsuma mandarin, White sapote (*Casimiroa* spp.), and other cultivars and/or hybrids of these

Pests Controlled	Rate fluid ounces/100 gallons	Rate fluid ounces/Acre
Aphids Black fly Leafhoppers/Sharpshooters Leafminers Mealy bugs Scales Whiteflies	3.5 - 5.0 (for dilute applications)	10.0 - 20.0 (depending on tree size, target pest and infestation pressure)
Thrips (suppression only)	3.5 - 5.0	10.0 - 20.0

**Notes and Restrictions for Citrus**

- Pre-Harvest Interval (PHI): 0 days
- Maximum interval between applications: 10 days
- Maximum GALLANT 1.6L allowed per crop season: 40.0 fluid ounces/Acre (0.5 lb. AI/A)
- Do not apply during bloom or within 10 days prior to bloom or when bees are actively foraging.

**Applications**

Aerial application of GALLANT 1.6L may result in slower activity and reduced control to results from ground application.

Scales - time applications to the crawler stage. Treat each generation. Where concentrated applications are appropriate, increase the spray solution concentration to apply an equivalent rate per acre to than applied in the diluted application. The 20.0 fluid ounce/Acre rate is based on full sized trees. This rate may be reduced proportionally for smaller trees.

**GRAPE**

American bunch grape, Muscadine grape and Viniferous grape

For control of Leafhoppers/Sharpshooters and Mealybugs apply 3.0 to 3.8 fluid ounces per acre. Use higher rates when pest pressure more severe.

For control of Grapeleaf skeletonizer apply 3.8 fluid ounces per acre. Control can usually be achieved with ground applications that provide more thorough coverage of foliage. Aerial applications may only provide suppression due to lack of thorough coverage.

**Notes and Restrictions for Grapes:**

- Pre-Harvest Interval (PHI): 0 days
- Maximum interval between applications: 14 days
- Maximum GALLANT 1.6L allowed per crop season: 7.6 fluid ounces/Acre (0.1 lb. AI/A)

**HOP**

For control of Aphids apply 8.0 fluid ounces per acre.

**Notes and Restrictions for Hops:**

- Pre-Harvest Interval (PHI): 28 days
- Maximum interval between applications: 21 days
- Maximum GALLANT 1.6L allowed per crop season: 24.0 fluid ounces/Acre (0.10 lb. AI/A)

**PECAN** (Use not permitted in California unless otherwise directed by supplemental labeling)

For control of Aphids (use higher rate for Black pecan aphid), Phylloxera and Spittlebugs apply 3.5 to 7.0 fluid ounces per acre. Use higher rate when pest pressure more severe.

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Notes and Restrictions for Pecans:

- Do not apply after shuck split.
- Pre-Harvest Interval (PHI): 7 days
- Maximum interval between applications: 10 days
- Maximum GALLANT 1.6L allowed per crop season: 28.0 fluid ounces/Acre (0.35 lb. AI/A)

**STONE FRUIT**

Apricot, Cherry (including sweet and tart), nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune

Pests Controlled	Rate fluid ounces/100 gallons	Rate fluid ounces/Acre
Aphids Green June beetle Japanese beetle Leafhoppers /Sharpshooters Plant bugs Rose chafer San Jose scale	2.0	4.0 – 8.0
Cherry fruit fly (maggot of Eastern and Western)	2.0	8.0
Pest suppressed		
Plum curculio Stink bugs	2.0	8.0
<ul style="list-style-type: none"> <li>• Aerial application of GALLANT 1.6L may result in slower activity and reduced control relative to results from ground application.</li> <li>• Minimum application volume (water): 50 GPA -ground application; 25 GPA - aerial application</li> <li>• Do not apply pre-bloom or during bloom or when bees are actively foraging.</li> </ul>		

Notes and Restrictions for Apricot, Nectarine, Peach:

- Pre-Harvest Interval (PHI): 0 day
- Minimum interval between applications: 7 days
- Maximum GALLANT 1.6L allowed per crop season: 24.0 fluid ounces/Acre (0.30 lbs. AI/A)

Notes and Restrictions for Cherries, Plums, Plumcot, Prune:

- Pre-Harvest Interval (PHI): 7 day
- Minimum interval between applications: 10 days
- Maximum GALLANT 1.6L allowed per crop season: 40.0 fluid ounces/Acre (0.50 lbs. AI/A)

**TROPICAL FRUIT**

Acerola, Avocado, Black sapote, Canistel, Feijoa, Jaboticaba, Guava, Longan, Lychee, Mamey sapote, Mango, Papaya, Passionfruit, Pulasan, rambutan, Sapodilla, Spanish lime, Star apple, Starfruit, Wax jambu

For control of Aphids, Leafhoppers /Sharpshooters, Thrips, and Whiteflies apply 8.0 fluid ounces per acre. For suppression of Scales apply 8.0 fluid ounces per acre.

Notes and Restrictions

- Pre-Harvest Interval (PHI): 7 days
- Maximum interval between applications: 10 days
- Maximum GALLANT 1.6L allowed per crop season: 40.0 fluid ounces/Acre (0.50 lb, AI/A)
- Maximum number GALLANT 1.6L applications per crop season: 5
- Do not apply pre-bloom or during bloom or when bees are actively foraging.

Aerial application of GALLANT 1.6L may result in slower activity and reduced control compared to ground

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application due to less thorough coverage.

### POME FRUIT

Apple, Crabapple, Loquat, Mayhaw, Pear (including Oriental pear), Quince

Pests Controlled	Rate fluid ounces/100 gallons	Rate fluid ounces/Acre <sup>1</sup>
Leafhoppers	1.0-2.0	4.0-8.0
Aphids (except woolly apple aphid) Leafminers San Jose scale	2.0	8.0
FOR PEAR, ONLY Mealybugs Pear psylla	5.0	20.0

Leafhoppers - apply low rate for low to moderate populations of white apple leafhoppers and high rate for high populations or for other leafhopper species. Apply GALLANT 1.6L while most leafhoppers are in the nymphal stage.

Leafminer - for first generation leafminer control, make application after pollination is complete and bees are no longer present in the orchard. Greatest leafminer control will result from the earliest possible application. For second and succeeding generations of leafminer, better control will be obtained from applications made early in the adult flight against egg and early instar larvae. A second application may be required 10 days later if severe pressure continues or if generations are overlapping. A single application may result in suppression only. GALLANT 1.6L will not control late instar larvae.

Mealybugs - apply maximum gallonage for tree with ground equipment. Ensure good spray coverage of the trunk and scaffolding limbs or other resting sites of mealybugs.

Rosy apple aphid - apply prior to leafrolling caused by rosy apple aphid.

San Jose scale - time applications to the crawler stage. Treat each generation.

<sup>1</sup>The amount of GALLANT 1.6L required per acre will depend on tree size and volume of foliage present. The rate per acre is based on a standard of 400 gallons of dilute spray solution per acre for large trees. To calculate the rate needed on smaller trees, multiply the pest specific rate (e.g., for aphid control, 2 fluid ounces/100 gallons) times the number of 100 gallons of spray solution required to thoroughly wet foliage just prior to the point of runoff, on one acre of the trees being treated. For concentrate sprays, apply the same amount of GALLANT 1.6L per acre as would be applied in a dilute spray based on tree size and foliage volume.

Notes and Restrictions for Pome Fruits:

- Pre-Harvest Interval (PHI): 7 days
- Maximum interval between applications: 10 days
- Maximum GALLANT 1.6L allowed per crop season: 40.0 fluid ounces/Acre (0.5 lb. A/A)
- Do not apply pre-bloom or during bloom or when bees are actively foraging.

Aerial application of GALLANT 1.6L may result in slower activity and reduced control compared to ground application due to less thorough coverage.

### OTHER CROPS

Apply as foliar spray at specified rate per acre when insect pressure reaches economic threshold. Uniform coverage is required to achieve best control and a spray adjuvant may help improve coverage. Two applications may be required to achieve control when initial insect populations are high. Retreatment should be based on field scout reports. GALLANT 1.6L may be tank mixed with other labeled insecticides

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to increase control or control pests not controlled by imidacloprid.

**POPLAR/COTTONWOOD** (includes members of the genus *Populus* grown for pulp or timber)  
(Use not permitted in California unless otherwise directed by supplemental labeling)

For control of Aphids and Leaf beetles apply 4.0 to 8.0 fluid ounces per acre. Use higher rates when pest pressure more severe.

Notes and Restrictions for Poplar/Cottonwood:

- Pre-Harvest Interval (PHI): 7 days
- Maximum interval between applications: 10 days
- Maximum GALLANT 1.6L allowed per crop season: 40.0 fluid ounces/Acre (0.50 lb. AI/A)
- Do not apply pre-bloom or during bloom or when bees are actively foraging.

Aerial application of GALLANT 1.6L may result in slower activity and reduced control compared to ground application due to less thorough coverage.

### **CHRISTMAS TREE**

For control of Aphids, Adelgids and Sawflies apply 4.0 to 8.0 fluid ounces per acre. Use higher rate when pest pressure more severe.

Notes and Restrictions for Christmas Trees:

- Pre-Harvest Interval (PHI): 7 days
- Maximum interval between applications: 7 days
- Maximum GALLANT 1.6L allowed per crop season: 40.0 fluid ounces/Acre (0.50 lb. AI/A)

Aerial application of GALLANT 1.6L may result in slower activity and reduced control compared to ground application due to less thorough coverage.

Gall-forming adelgids - time applications to coincide with full bud-swell or first bud-break of earliest bud-breaking trees. After galls form, spraying will no longer be ineffective.

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