264 - 827

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

> OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

MAY 1 7 2005

Ms. Karen S. Shearer: Bayer CropScience P O Box 12014, 2 T.W. Alexander Drive Research Triangle Park, NC 27709

Subject: Amended for Label Clarification Gaucho 550 SC Insecticide EPA Reg. No. 264-827 Your Submission date, March 24, 2005

Dear Ms. Shearer:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable. A stamped copy is enclosed for your records. Submit two (2) copies of your final printed labeling before you release the product for shipment. If there are questions call me at 703 305-5409.

Sincerely,

Dani Daniel Insecticide-Rodenticide Branch Registration Division 7505C

Enclosure:

Under the Federal Insecticide,

Fungicide, and Rodenticide Act.

as amended, for the pesticide



2728

Gaucho 550 SC Insecticide

For uses in pest management, suppression of insect vectored diseases and maintenance of plant health.

ACTIVE INGREDIENT:

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine42.	8%
OTHER INGREDIENTS:	<u>2%</u>
100.0	0%

EPA Reg. No. 264-827

EPA Est. No. 3125-MO-001

Contains 4.6 pounds of active ingredient per gallon or 550 grams Al/liter.

SHAKE WELL BEFORE USING

STOP - Read the label before use KEEP OUT OF REACH OF CHILDREN CAUTION

For <u>MEDICAL</u> And <u>TRANSPORTATION</u> Emergencies <u>ONLY</u> Call 24 Hours A Day 1-800-334-7577 For <u>PRODUCT USE</u> Information Call 1-866-99BAYER (1-866-992-2937)

FIRST AID

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 a poison control center or	doctor.
	Do not give anything by mouth to an unconscious person.	
If in eyes	 Hold eye open and rinse slowly and gently with water for 15 to 20 minute present, after the first 5 minutes, then continue rinsing eye. 	s. Remove contact lenses, it
	Call a poison control center or doctor for treatment advice.	
If on skin or clothing	Take off contaminated clothing.	
	Rinse skin immediately with plenty of water for 15 to 20 minutes.	
	Call a poison control center or doctor for treatment advice.	
In case of emerg Have a product of	gency call toll free the Bayer CropScience Emergency Response Telephone container or label with you when calling a poison control center or doctor, or	No. 1-800-334-7577. going for treatment.
Note To Physician: No s	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.

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, polyvinylchloride (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 or enclosed cabs 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. <u>Avoiding spray drift is the responsibility of the applicator</u>.

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 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.

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 area and potential surface to groundwater conduits such as field sumps, uncased well heads, sinkholes, or field drains.

No-Spray Zone Requirements for Soil Applications

Do not apply within 25 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 using Gaucho® 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.

Resistance Management

Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area.

Gaucho® 550 SC contains a Group 4A insecticide. Insect biotypes with acquired or inherent resistance to Group 4A may eventually dominate the insect population if Group 4A insecticides are used repeatedly as the predominant method of control for targeted species.

The active ingredient in Gaucho® belongs to the neonicotinoid chemical class. Insect pests resistant to other chemical classes have not shown cross-resistance to Gaucho®. In order to maintain susceptibility to this class of chemistry in insect species with high resistance development potential, it is recommended that for each crop season: 1) only a single, soil application of Gaucho® be made; 2) foliar applications of products from this same class not be made following a long residual, soil application of Gaucho®, or other neonicotinoid products.

Other Group 4A, neonicotinoid products used as foliar treatments include: Actara, Assail, Calypso, Centric, Clutch, Intruder, Leverage, Provado and Trimax.

Other Group 4A, neonicotinoid products used as soil/seed treatments include: Admire and Platinum.

Contact your Cooperative Extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations. Also, for more information on Insect Resistance Management (IRM), visit the Insecticide Resistance Action Committee (IRAC) on the web at http://www.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, polyvinylchloride (PVC) or viton
- 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. You may contact the Bayer CropScience Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer CropScience Emergency Response telephone number is 1-800-334-7577.

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

Applications of Gaucho® 550 SC should direct product into the seed or root-zone of crop. Failure to place Gaucho® into root-zone may result in loss of control or delay in onset of activity. Gaucho® may be applied with ground or chemigation application. Do not apply with aerial application equipment. Broadcast, foliar applications are only recommended to seedling flats or trays, or where product is intended to be washed from foliage to soil prior to drying on foliage.

Optimum activity of Gaucho® results from applications to the root-zone of plants to be protected. The earlier Gaucho® is available to a developing plant, the earlier the protection begins. Gaucho® is continuously taken into the roots over a long period of time and the systemic nature of Gaucho® allows movement from roots through the xylem tissue to all vegetative parts of the plant. This results in extended residual activity of Gaucho®, the control of insects and the prevention and/or reduction of virus transmission or symptom expression, and plant health benefits. The rate of Gaucho® applied affects the length of the plant protection period. Higher rates are recommended when infestations occur later in crop development, or where pest pressure is continuous. Gaucho® will generally not control insects infesting flowers, blooms or fruit. Additional crop protection may be required for insects feeding in, or on these plant parts and for insects not listed in the crop-specific, pests controlled sections of this label. Additional, specific Gaucho® application recommendations are also provided in the crop-specific sections of this label.

Suppression, or less than complete control of certain diseases and insect pests including reduced feeding may also result from an Gaucho® applications. Complete control of these pests/diseases may require supplemental control measures.

Gaucho® use on crops grown for production of true seed intended for private or commercial planting is generally not recommended but may be allowed under State specific, supplemental labeling. As with any insecticide, care should be taken to minimize exposure of Gaucho® to honey bees and other pollinators. Additional information on Gaucho® uses for these crops and other questions, may be obtained from the Cooperative Extension Service, PCAs, consultants or local Bayer CropScience representatives.

Gaucho® should be pre-mixed with water or other appropriate diluent prior to application. Keep Gaucho® and water suspension agitated to avoid settling.

Do not apply more than 0.5 lb 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.

Additional Product Use information may be obtained by calling 1-866-99BAYER (1-866-992-2937) or visiting our web site at www.bayercropscienceus.com.

Mixing Instructions

To prepare the application mixture, add a portion of the required amount of water to the tank and with agitation add Gaucho®. Complete filling tank with balance of water needed. Maintain sufficient agitation during both mixing and application. Gaucho® may also be used with other pesticides and/or fertilizer solutions. Please see Compatibility Note below. When tank mixtures of Gaucho® and other pesticides are involved, prepare the tank mixture as recommended above and follow suggested Mixing Order below.

Mixing Order

When pesticide mixtures are needed, add wettable powders first, Gaucho® and other suspension concentrate products second, and emulsifiable concentrates last. Ensure good agitation as each component is added. Do not add an additional component 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

Test compatibility of the intended mixture before adding Gaucho® to the spray or mix tank. Add proportionate amounts of each ingredient in the appropriate order, to a pint or quart jar, cap, shake for 5 minutes, and let set for 5 minutes. Poor mixing or formation of precipitates that do not readily redisperse indicates an incompatible mixture that should not be used. For further information, contact your local Bayer CropScience representative.

CHEMIGATION – DIRECTIONS FOR USE

Types of Irrigation Systems

Chemigation applications of Gaucho® may only be made to crops through chemigation systems as specified in crop-specific Application sections and only through low-pressure systems unless specifically recommended for a given crop. Do not apply Gaucho® through any other type of irrigation system.

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 Cooperative 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 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 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.

Using Water from Public Water Systems

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. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be 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. The pesticide injection pipeline must contain a functional automatic quick-closing check valve to prevent the flow of fluid back toward the injection. The pesticide injection pipeline must 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 or in cases where there is no water pump, 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.

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.

IMMEDIATE PLANT-BACK:

All crops on this label plus the following crops not on this label: barley, canola, corn (field, pop & sweet), rapeseed, sorghum, sugar beet and wheat.

30-DAY PLANT-BACK:

Cereals (including buckwheat, millet, oats, rice, rye, and triticale), soybeans and safflower

10-MONTH PLANT-BACK:

Onion and bulb vegetables.

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.

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FIELD CROPS

Recommended Applications - Gaucho® 550 SC Insecticide

COTTON

Pests Controlled	Rate fluid ounces/Acre
Cotton aphid	
Plant bugs	7.4 - 9.2
Thrips	(Depending on row-spacing)
Whiteflies	

Notes and Restrictions:

Maximum Gaucho® allowed per crop season: 9.2 fluid ounces/Acre (0.33 lb ai/Acre)

Regardless of formulation or method of application, apply no more than 0.5 lb active ingredient of Gaucho®, Admire®, Provado®, Trimax[™] or Leverage® per acre per season, including seed treatment, soil <u>and</u> foliar uses. Do not apply more than a total of 6 applications of the active ingredient per season. Do not graze treated fields after any application of Gaucho®. Please see Resistance Management section of this label.

Applications:

Apply specified dosage in one of the following methods:

- 1. In-furrow spray during planting directed on or below seed;
- 2. In a narrow band directly below the eventual seed row in a bedding operation 7 or fewer days before planting;
- 3. Chemigation into root-zone through low-pressure drip or trickle irrigation.

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Pests Controlled	Rate fluid ounces/Acre	
Aphids		
Colorado potato beetle		
Flea beetles	5.7 - 8.7	
Leafhoppers		
Potato psyllid		
Pests / Disease	s Suppressed	
Symptoms of:		
Potato leaf roll virus (PLRV)		
Potato yellows	5.7 - 8.7	
Net necrosis (PLRV)		
Wireworms (with in-furrow spray at-planting)		
Notes and Restrictions		
Maximum Gaucho® allowed per crop season: 8.7 fluid ounces/Act	e (0.31 lb Al/Acre)	
Applications		
Apply specified dosage in one of the following methods:		
1. In-furrow spray during planting directed on seed pieces or seed p	otatoes;	
2. Subsurface side-dress on both sides of the row covered with 3 or	more inches of soil;	
3. Narrow band spray at ground cracking directly over the row during	g hilling covered with 3 or more inches of soil;	
4. Narrow band directly below the eventual seed row in a bedding of control or suppression, Gaucho® applications must be placed beli- zone. For potatoes grown on highly permeable soils with shallow 2 to 4 inch band (width of planter shoe opening) and completely of	ow soil-surface and in contact with seed piece or within root- water table, at-plant applications of Gaucho® may be made in a	

ΡΟΤΑΤΟ

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(Seed Piece Treatment)

Pests Controlled	Rate fluid ounces/100 lbs seed	Rate fluid ounces/Acre*			
Aphids					
Colorado potato beetle					
Flea beetles					
Leafhoppers	0.17 – 0.35 3.5 – 7.0				
Potato psyllid					
Wireworms (seed-piece protection)					
	Pests / Diseases Suppressed				
Symptoms of:					
Potato leaf roll virus (PLRV)	LRV)				
0.35 7.0					
Net necrosis (PLRV)					
Notes and Restrictions					
Maximum Gaucho® allowed per crop sea	ison: 8.7 fluid ounces/Acre (0.31 lb Al/Acre)				
Do not use treated seed-pieces for food, Leverage® or Provado® following a Gau	feed, or fodder. Do not apply any subsequent ap cho® seed-piece treatment.	plication of Admire® (in-furrow), Gaucho®,			
Application					
part Gaucho®. Agitate or stir spray sapplication. Apply only in areas with ad	ay onto seed-pieces using a shielded spray syste olution as needed. Fungicidal or inert absorbe equate ventilation or in areas that are equipped t ting avoiding prolonged exposure of Gaucho®	ent dusts may be applied after Gaucho			

accordance with the recommendation of your local Extension specialist. * Based on a seeding rate of 2000 lbs/acre.

TOBACCO

Pests Controlled	Rate fluid ounces/1000 plants (as seedling tray drench)	Rate fluid ounces/1000 plants (in-furrow or transplant-water)
Aphids Flea beetles	0.5	0.6
Mole crickets Whiteflies Wireworms	0.6 - 1.2	0.8 - 1.2
Pests / Diseases Suppressed		
Cutworms Symptoms of: Tomato spotted wilt virus (TSWV)	0.6 - 1.2	0.8 - 1.2

Pre-Harvest Interval (PHI): 14 days

Maximum Gaucho® allowed per crop season: 14.0 fluid ounces/Acre (0.5 lb Al/Acre)

Applications

Apply specified dosage in one of the following methods:

1. Uniform, broadcast foliar spray to seedlings in trays (tray drench) not more than 7 days prior to transplanting followed immediately by overhead irrigation to wash Gaucho® from foliage into potting media. Failure to wash Gaucho® from foliage may result in a reduction in pest control. Transplants should be handled carefully during setting to avoid dislodging treated potting media from roots.

2. In-furrow spray or transplant-water drench during setting.

3. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.

Important Note: Proper tray drench applications of Gaucho® have been shown to be the most efficacious method of application. However, the specified rate of Gaucho® may be applied as combination of the tray drench in the planthouse and/or transplant-water drench in field. Adverse growing conditions may cause a delay in uptake of Gaucho® into the plant and a delay in control.

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VEGETABLE and SMALL FRUIT CROPS

Recommended Applications - Gaucho® 550 SC Insecticide

CUCURBIT VEGETABLES 1/

Including: Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cuban pumpkin, Cucumber, Gherkin, Gourd (edible, includes hyotan, cucuzza, hechima, Chinese okra), *Momordica* spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of *Cucumis melo* including true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon and Winter melon), Pumpkin, Squash (includes summer squash types such as: butternut squash, calabaza, crookneck squash, Hubbard squash, scallop squash, straightneck squash, vegetable marrow and zucchini, and winter squash types such as acorn squash and spaghetti squash), Watermelon (includes hybrids and/or varieties of *Citrullus lanatus*)

into potting media without loss of gravitational liquid from the bottom of the tray. Failure to wash Gaucho® from foliage may resu in reduced pest control;	Field application recommendations. See details below for additional planthouse recommendations.			
Aphids Cucumber beetles Leafhoppers 7.0 - 10.5 Thrips (foliage-feeding thrips only) Whiteflies Bacterial wilt (as vectored by various cucumber beetles) 7.0 - 10.5 Leaf silvering resulting from whitefly feeding 7.0 - 10.5 Notes and Restrictions 7.0 - 10.5 Pre-Harvest Interval (PHI): 21 days 7.0 - 10.5 Maximum Gaucho® allowed per application: 10.5 fluid ounces/Acre (0.38 lb Al/Acre) Apply specified dosage in one of the following methods: 1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment; 1.1/2" with sufficient irrigation within 24 hours of application; 2. Narrow stray directly below eventual seed row in bedding operation 14 or fewer days before planting; 5 3. Posts Controlled Rate fluid ounces/10,000 Plants Aphids 0.44 Whiteflies Notes and Restrictions Maximum amount Gaucho® applied in the planthouse: 1 Applications 0.44 Notes and Restrictions 0.44 Natros bage in one of the following methods:: 1 0.44 Marking unumber Gaucho® applied in the planthouse: 1 Applications Aphids 0.44	Pests Controlled			
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Injection into overhead irrigation system, using adequate volume to thoroughly saturate soil media without loss of gravitational solution from the bottom of the tray.				
The application made in the planthouse will only provide short-term protection and is not intended as a substitution for a fie application. An additional field application must be made within 2 weeks following transplanting to provide continuous protectio Applications of higher rates or increased number of applications in planthouse may result in significant plant injury. Transplan should be handled carefully during setting to avoid dislodging treated potting media from roots.				
Important Note: Not all varieties of cucurbit vegetables have been tested for tolerance to Gaucho® applied to seedling flats. It is therefore recommended to treat a small number of plants and confirm tolerance for 7 days prior to treating entire planthouse. $\frac{\nu}{2}$ Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.				

^{2/} Use not permitted in California unless otherwise directed by Supplemental Labeling.

GREENHOUSE VEGETABLES^{1/}

(Mature plants in production greenhouses) Cucumber, Tomato, only

Pests Controlled	Rate fluid ounces/1000 plants
Aphids Whiteflies	0.6

Notes and Restrictions

Pre-Harvest Interval (PHI): 0 day

Maximum number Gaucho® applications per crop season: 1.

Apply specified dosage in a minimum of 16 gallons of water for tomatoes and 21 gallons of water for cucumbers using soil drenches, micro-irrigation, drip irrigation, or hand-held or motorized calibrated irrigation equipment. Do not apply to immature plants since phytotoxicity may occur.

Applications should be made when infestation pressure surpasses threshold and beneficials are not able to maintain pest populations below damage thresholds. Repellency of bumble bee pollinators and negative effects on some beneficials (*Orius* sp.) can occur when Gaucho® is applied.

Many varieties of vegetables have been tested for tolerance to Gaucho® and show good safety. However, certain varieties may show more sensitivity to Gaucho®. Therefore, treatment of a few plants is recommended before treating the whole greenhouse. ¹/₁ Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

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FRUITING VEGETABLES \mathcal{V}

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

Pests Controlled	Rate
	fluid ounces/Acre
Aphids	Okra and Pepper
Colorado potato beetle	7.0 – 14.0
Flea beetles	
Leafhoppers	Other Crops
Thrips (foliage-feeding thrips, only)	7.0 – 10.5
Whiteflies	
Pests / Diseases Suppressed	Olive and Berner
Symptoms of:	Okra and Pepper
Tomato mottle virus	7.0 – 14.0
Tomato spotted wilt virus	Other Crops
Tomato yellow leaf curl virus	7.0 – 10.5
Notes and Restrictions	
Pre-Harvest Interval (PHI): 21 days	
Maximum Gaucho® allowed on pepper and okra crops per applic	
Maximum Gaucho® allowed on other fruiting vegetable crops per	application: 10.5 fluid ounces/Acre (0.38 lb Al/Acre)
Applications	
Apply specified dosage in one of the following methods:	
. Chemigation into root-zone through low-pressure drip, trickle	, micro-sprinkler or equivalent equipment;
2. In-furrow spray directed on or below seed;	
 Narrow (2" or less) surface band spray over seed-line during irrigation within 24 hours of application; 	
4. Narrow band spray directly below eventual seed row in bedd	
5. Post-seeding drench, transplant-water drench, or hill drench;	
6. Subsurface side-dress on both sides of each row. Gaucho®	must be incorporated into root-zone.
Planthouse Application Recommendations 2/	
Pests Controlled	Rate fluid ounces/10,000 Plants
Aphids	0.44
Whiteflies	
Notes and Restrictions	
	l ounces (0.0156 lb Al)/10,000 plants.
Maximum number Gaucho® applications in planthouse: 1	i ounces (0.0156 lb Al)/10,000 plants.
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 Maximum number Gaucho® applications in planthouse: 1 Applications Apply specified dosage to seedlings in trays in the planthouse, ta ransplanting, in one of the following manners: I. Uniform, broadcast high-volume foliar spray, followed immed foliage into potting media without loss of gravitational liquid fi may result in reduced pest control; 2. Injection into overhead irrigation system, using adequate volus solution from the bottom of the tray. The application made in the planthouse will only provide short application. An additional field application must be made within 	rgeting soil media (tray drench), not more than 7 days prior to iately by sufficient overhead irrigation to wash Gaucho® from om the bottom of the tray. Failure to wash Gaucho® from foliage ume to thoroughly saturate soil media without loss of gravitational t-term protection and is not intended as a substitution for a fiel of 2 weeks following transplanting to provide continuous protectior s in planthouse may result in significant plant injury. Transplant
 Maximum number Gaucho® applications in planthouse: 1 Applications Apply specified dosage to seedlings in trays in the planthouse, ta ransplanting, in one of the following manners: Uniform, broadcast high-volume foliar spray, followed immed foliage into potting media without loss of gravitational liquid fir may result in reduced pest control; Injection into overhead irrigation system, using adequate volt solution from the bottom of the tray. The application made in the planthouse will only provide short application. An additional field application must be made within Applications of higher rates or increased number of application should be handled carefully during setting to avoid dislodging treatmost the tray. 	rgeting soil media (tray drench), not more than 7 days prior to iately by sufficient overhead irrigation to wash Gaucho® from from the bottom of the tray. Failure to wash Gaucho® from foliage ume to thoroughly saturate soil media without loss of gravitational t-term protection and is not intended as a substitution for a fiel in 2 weeks following transplanting to provide continuous protection is in planthouse may result in significant plant injury. Transplant ted potting media from roots.
 Maximum number Gaucho® applications in planthouse: 1 Applications Apply specified dosage to seedlings in trays in the planthouse, ta ransplanting, in one of the following manners: Uniform, broadcast high-volume foliar spray, followed immed foliage into potting media without loss of gravitational liquid frimay result in reduced pest control; Injection into overhead irrigation system, using adequate volt solution from the bottom of the tray. The application made in the planthouse will only provide short application. An additional field application must be made within Applications of higher rates or increased number of application should be handled carefully during setting to avoid dislodging treates. 	rgeting soil media (tray drench), not more than 7 days prior to iately by sufficient overhead irrigation to wash Gaucho® from from the bottom of the tray. Failure to wash Gaucho® from foliage ume to thoroughly saturate soil media without loss of gravitational t-term protection and is not intended as a substitution for a fiel in 2 weeks following transplanting to provide continuous protection is in planthouse may result in significant plant injury. Transplant ted potting media from roots. then tested for tolerance to Gaucho® applied to seedling flats. It is firm tolerance for 7 days prior to treating entire planthouse.

HEAD and STEM BRASSICA VEGETABLES 1/

Including: 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 (leaves)

LEAFY VEGETABLES ^{1/}

Including: 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 chicory), 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)

	Pests Controlled	Rate fluid ounces/Acre	
Aphids		4.4 - 10.5	
Whiteflies			
Notes and Rest	rictions		
Pre-Harvest Inte	erval (PHI): 21 days		
Maximum Gauc	ho® allowed per application: 10.5 fluid ounc	es/Acre (0.38 lb Al/Acre)	
Applications			
Apply specified	dosage in one of the following methods:		
1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment;			
2. In-furrow spray directed on or below seed;			
 Narrow (2" or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1½" with sufficient irrigatic within 24 hours of application; 			
4. Narrow ban	Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting;		
5. Post-seedir	Post-seeding drench, transplant-water drench, or hill drench;		
6 Subsurface	Subsurface side dress on both sides of each row (excent leafy vegetables). Gauchon must be incomporated into root zone		

6. Subsurface side-dress on both sides of each row (except leafy vegetables). Gaucho® must be incorporated into root-zone.

¹⁷ Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

LEAFY PETIOLE VEGETABLES $^{\mathcal{V}}$

Including: Cardoon, Celery, Celtuce, Chinese celery (fresh leaves and stalk only), Florence fennel (including sweet anise, sweet fennel, Finocchio), Rhubarb, Swiss chard

- -----

Pests Controlled		Rate fluid ounces/Acre	
Aphids			
Leafhopp	pers	4.4 – 10.5	
Whiteflie	S		
Notes ar	d Restrictions		
Pre-Harv	est Interval (PHI): 45 days		
Maximun	n Gaucho® allowed per application: 10.5 fluid ounces	s/Acre (0.38 lb Al/Acre)	
Applicat	ions		
Apply sp	ecified dosage in one of the following methods:		
1. Che	migation into root-zone through low-pressure drip, tric	kle, micro-sprinkler or equivalent equipment;	
2. In-fu	rrow spray directed on or below seed;		
	ow (2" or less) surface band spray over seed-line duri n 24 hours of application;	ng planting incorporated to a depth of 1 to 1½" with sufficient irrigation	
4. Narr	ow band spray directly below eventual seed row in be	dding operation 14 or fewer days before planting;	
5. Post	-seeding drench, transplant-water drench, or hill dren	ch;	
6. Sub	surface side-dress on both sides of each row. Gauch	b® must be incorporated into root-zone.	
1/			

¹⁷ Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

LEGUME VEGETABLES 1/ 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-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea) Other Beans and Peas Broad bean (fava), Chickpea (garbanzo bean), Guar, Jackbean, Lablab bean (hyacinth bean), Lentil, Pigeon pea, Soybean (immature seed), Sword bean

Pests Controlled	Rate fluid ounces/Acre
Aphids	
Leafhoppers	70.405
Thrips (foliage-feeding thrips, only)	7.0 – 10.5
Whiteflies	
Pests / Diseases Suppressed	
Symptoms of:	
Bean common mosaic virus (BCMV)	70, 405
Bean golden mosaic virus (BGMV)	7.0 – 10.5
Beet curly top hybrigeminivirus (BCTV)	
Notes and Restrictions	
Pre-Harvest Interval (PHI): 21 days	
Maximum Gaucho® allowed per crop season: 10.5 fluid ou	unces/Acre (0.38 lb Al/Acre)
Applications	
Apply specified dosage in one of the following methods:	
1. Chemigation into root-zone through low-pressure drip,	trickle, micro-sprinkler or equivalent equipment;
2. In-furrow spray at planting directed on or below seed;	
 In a narrow (2" or less) surface band over seed-line du within 24 hours following application; 	rring planting incorporated to a depth of 1 to 1 1/2" with sufficient irrigation
4. In a narrow band directly below the eventual seed row	in a bedding operation 7 or fewer days before planting;
5. As a post-seeding drench, transplant drench, or hill dre	
$^{1\prime}$ Not for use on crops grown for seed upless allowed by st.	ate-specific supplemental labeling

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

ROOT VEGETABLES^{1/}

Including: Beet (garden)^{2/}, Burdock (edible)^{2/}, Carrot^{2/}, Celeriac^{2/}, Chervil (turnip-rooted)^{2/}, Chicory^{2/}, Ginseng, Horseradish, Parsley (turnip-rooted), Parsnip^{2/}, Radish^{2/}, Oriental radish (diakon)^{2/}, Rutabaga^{2/}, Salsify (oyster plant), Salsify (black)^{2/}, Salsify (Spanish), Skirret and Turnip^{2/}.

Pests Controlled	Rate fluid ounces/1000 row-feet	Rate fluid ounces/Acre		
Aphids				
Flea beetles		4.4.40.5		
Leafhoppers	0.31 - 0.74	4.4 - 10.5		
Whiteflies				
Notes and Restrictions				
Pre-Harvest Interval (PHI): 21 days				
Maximum Gaucho® allowed per crop s	eason: 10.5 fluid ounces/Acre (0.38 lb Al/Acre)			
Maximum Gaucho® applications per cr	op season: 1			
Application				
Apply specified dosage in one of the fol	lowing methods:			
1. Chemigation into root-zone through I	ow-pressure drip, trickle, micro-sprinkler or equival	ent equipment;		
2. In-furrow spray (rate specified per 10	00 row-feet) or, shanked-in 1 to 2 inches below se	ed depth during planting;		
 In a narrow (2 inches or less) band d before planting. 	rectly (1 to 2 inches) below the eventual seed row	in a bedding operation 14 or fewer days		
Incompany blackers. The sets applied affect				

Important Note: The rate applied affects the length of control. Use higher rates where infestations occur later in crop development, or where pest pressure is continuous. Gaucho® rates less than 0.31 fluid ounces/1000 row-feet will not provide adequate residual pest control. Gaucho® treated crops grown on very high organic matter soils (muck) may also require additional pest management COntrol. ⊉ ⊾

Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

^{2/} Tops or greens from these crops may be utilized for food or feed

TUBEROUS and CORM VEGETABLES ^{1/}

Including: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Canna (edible, Queensland arrowroot), Cassava (bitter & sweet)²⁷ Chayote (root), Chufa, Dasheen (taro)^{2/}, Ginger, Leren, Sweetpotato, Tanier (cocoyam)^{2/}, Tumeric, Yam bean (jicama, manoic pea), Yam (true)^{2/} (For recommended applications on potato see Field Crops section)

Pests Controlled	Rate fluid ounces/1000 row-feet	Rate fluid ounces/Acre	
Aphids			
Flea beetles		4.4.405	
Leafhoppers	0.31 – 0.74	4.4 - 10.5	
Whiteflies			

Notes and Restrictions

Pre-Harvest Interval (PHI): 3 days (leaves); 125 days (corms)

Maximum Gaucho® allowed per crop season: 10.5 fluid ounces/Acre (0.38 lb Al/Acre)

Maximum Gaucho® applications per crop season: 1

Application

Apply specified dosage in one of the following methods:

1. In-furrow spray (rate specified per 1000 row-feet) over planting material (hulis) or shanked-in 1 to 2 inches below hulis depth at planting:

2. Side-dress not more than 0.26 fluid ounces/1000 row-feet no later than 45 days after-planting.

Important Note: The rate applied affects the length of control. Use higher rates where infestations occur later in crop development, or where pest pressure is continuous. Gaucho® rates less than 0.31 fluid ounces/1000 row-feet may not provide adequate residual pest control. Gaucho® treated crops grown on very high organic matter soils (muck) may also require additional pest management control

^{1/} Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

²¹ Tops or greens from these crops may be utilized for food or feed.

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STRAWBERRY 1/

Annual and Perennial Crops

Pests Controlled	Rate fluid ounces/Acre
Aphids	10.5 - 14.0
Whiteflies	
Notes and Restrictions	
Pre-Harvest Interval (PHI): 14 days	
Maximum Gaucho® allowed per crop season: 14.0 fluid ounces/	Acre (0.5 lb Al/Acre)
Applications	
Apply specified dosage in one of the following methods:	
 Chemigation into root-zone through low-pressure drip, trickle, established or on perennial crops in early spring prior to bud or 	
2. As a plant material or plant hole treatment just prior to, or dur	ing transplanting.
The rate applied affects the length of control. Use higher rates wh pressure is continuous.	ere infestations may occur later in crop development or where pest
Post-harvest Use on Perennial Crops	
Pests Controlled	Rate fluid ounces/Acre
White grub complex (grubs of Asiatic garden beetle, European and Masked chafer, Japanese beetle, Oriental beetle)	7.0 - 10.5
Notes and Restrictions	
Pre-Harvest Interval (PHI): 14 days	
Maximum Gaucho® allowed per season: 10.5 fluid ounces/Acre	(0.38 lb Al/A)
Applications	
Apply a single application post harvest to coincide with renova beetles. Apply specified dosage in one of the following methods:	tion of strawberry fields and during active egg-laying period of
1. As a ground spray via boom or backpack sprayer in a minimu	m of 20 gallons of water per acre;
As a row-band spray using an adjusted amount of product ba required per full acre. The bandwidth should be equivalent to	
	er followed by 0.10 to 0.25 inches irrigation
As a chemigation application with 600 to 1000 gallons of wate	i lonomed by c. to to e.zo meneo iniguaon.

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SUGARBEET 1/

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(for use only in CA)

Pests Controlled	Rate fluid ounces/Acre
Aphids	
Leafhoppers	26-52
Whiteflies	2.0 - 5.2
Flea beetles	
Pests / Diseases Su	ppressed
Symptoms of:	2.6 - 5.2
Western yellows / Beet curly top hybrigeminivirus (BCTV)	2.0 - 5.2
Notes and Restrictions	
Maximum Gaucho® allowed per crop season: 5.2 fluid ounces/Acre (0	.18 lb Al/Acre)
Maximum imidacloprid allowed per season: 0.18 Ib Al/Acre (from any for	rmulation) on any row spacing
Applications	
Apply specified dosage in the following method:	
 Apply specified dosage in sufficient carrier volume to insure uniform a during the bedding operation immediately prior to planting or at the tin 	
The low rate may be applied to aid establishment of stands in whitefly an $\frac{y}{2}$ Not for use on crops grown for seed unless allowed by state-specific s	

	CONVE	RSION	CHART	GAUCHO® 550 SC INSECTICIDE CONVERSION CHART FOR LINEAR APPLICATION							
RATE fluid ounces/1000 row-feet											
RATE fluid ounces per Acre	Based on <i>average</i> row spacing (in inches):										
	10	15	20	25	30	34	36	38	40	45	
5.0		a014			020	0.33	0.34	0.36	0.38	0.43	
5.5	-0.11	Olie		0778×	0.32	0.36	0.38	0.40	0.42	0.47	
6.0		S I I I			0.34	0.39	0.41	0.44	0.46	0.52	
6.5	0.12			0.31	0.37	0.42	0.45	0.47	0.50	0.56	
7.0		1020			0.40	0.46	0.48	0.51	0.54	0.60	
7.5	0.14	0227	100 DOL	0.36	0.43	0.49	0.52	0.55	0.57	0.65	
8.0	0.15	¥0.23	0.31	0.38	0.46	0.52	0.55	0.58	0.61	0.69	
8.5	0.16	0.24	0.33	0.41	0.49	0.55	0.59	0.62	0.65	0.73	
9.0	0173		0.34	0.43	0.52	0.59	0.62	0.65	0.69	0.77	
9.5		0027	0.36	0.45	0.55	0.62	0.65	0.69	0.73	0.82	
10.0		10.29	0.38	0.48	0.57	0.65	0.69	0.73	0.77	0.86	
10.5	0.20	0.30	0.40	0.50	0.60	0.68	0.72	0.76	0.80	0.90	
11.0	0.21	0.32	0.42	0.53	0.63	0.72	0.76	0.80	0.84	0.95	
11.5	0.22	0.33	0.44	0.55	0.66	0.75	0.79	0.84	0.88	0.99	
12.0	0.23	0.34	0.46	0.57	0.69	0.78	0.83	0.87	0.92	1.03	
12.5	0.24	0.36	0.48	0.60	0.72	0.81	0.86	0.91	0.96	1.08	
13.0	0.25	0.37	0.50	0.62	0.75	0.85	0.90	0.95	0.99	1.12	
13.5	0.26	0.39	0.52	0.65	0.77	0.88	0.93	0.98	1.03	1.16	
14.0	0.27	0.40	0.54	0.67	0.80	0.91	0.96	1.02	1.07	1.21	

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Important Note: The Gaucho® rate applied affects the length of control and to a considerable extent, the degree of control or effect. Row-spacing X Gaucho® rate combinations in shaded blocks may not provide adequate residual pest control and are not recommended for long-term, residual control. Use higher labelled rates where infestations may occur later in crop development or where pest pressure is continuous. Bayer CropScience offers no warranty for use of Gaucho® at rates below 0.31 fluid ounces/1000 row-feet.

TREE, BUSH and VINE CROPS Recommended Applications – Gaucho® 550 SC Insecticide

BUSHBERRY

Including: Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, Juneberry, Ligonberry, Satal

Pests Controlled	Rate fluid ounces/Acre		
Japanese beetle (adults, feeding on foliage)			
White grub complex (grubs of Asiatic garden beetle, European and Masked chafer, Japanese beetle and Oriental beetle)	7.0 – 14.0		
Notes and Restrictions			
Pre-Harvest Interval (PHI): 7 days			
Maximum Gaucho® allowed per season: 14.0 fluid ounces/Acr	re (0.5 lb Al/Acre)		
Applications			
Apply specified dosage in one of the following methods:			
1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment;			
2. 18-inch band on each side of the row followed with 0.25 inches of irrigation immediately after application.			
	nstar larvae. Application may be made post-bloom up to 7 days prior rol of Japanese beetle larvae, make applications from June 1 to July actively foraging.		
Application to grass covered rows, row middles, drive lanes, h	eadlands, and other grassy areas in and around the berry field will		

control resident grub populations. Applications directed to the root-zone will help protect berry plant roots from grub feeding. Apply Gaucho® to moist soil. If necessary, apply one hour of irrigation water immediately before application of Gaucho®. To ensure maximum efficacy, 1/2 to 1 inch of irrigation water or rainfall should be applied or received within 24 hours of application of Gaucho® to facilitate movement into the soil and into the root-zone.

CITRUS (Containerized)

Including: Calamondin, Citrus citron, Citrus hybrids (includes chironja, tangelo, and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Pummelo, Orange (sweet and sour), Tangelo, Satsuma mandarin, White sapote (*Casimiroa* spp), and other cutivars and/or hybrids of these.

Pests Controlled	Rate mL/ft ^a container media
Aphids	
Asian citrus psyllid	
Black fly	
Citrus leafminer	0.33
Leafhoppers/Sharpshooters	0.35
Mealybugs	
Scales	
Whiteflies	
Citrus root weevil (larval complex)	0.55 – 1.1
Pests / Dise	ases Suppressed
Citrus thrips	1.1
Application	

Determine volume of container and calculate dosage necessary to treat container. Apply calculated dosage of Gaucho® per container as a soil drench or through low-pressure drip or trickle irrigation water. Use sufficient carrier volume to ensure thorough uniform distribution throughout the media without loss of gravitational water from the container. For optimal results, treatment should be made at planting prior to insect infestation. Retreat if necessary. For control of larvae of the citrus root weevil complex, application should be made prior to neonate larvae entering potting media. Utilize higher dosage for heavy infestations.

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CITRUS (Field)

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Including: Calamondin, Citrus citron, Citrus hybrids (includes chironja, tangelo, and tangor), Grapefruit, Kumquat, 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/Acre			
Aphids				
Asian citrus psyllid				
Black fly				
Citrus leafminer				
Leafhoppers/Sharpshooters	7.0 – 14.0			
Mealybugs				
Scales				
Termites (FL only)				
Whiteflies				
Pests / D	iseases Suppressed			
Citrus nematode				
Symptoms of:				
Citrus tristeza virus (CTV) through vector control	14.0			
Citrus yellows				
Thrips (foliage feeding thrips only)				
Notes and Restrictions				
Pre-Harvest Interval (PHI): 0 day				
Maximum Gaucho® allowed per season: 32.0 fluid ounces/	Acre (0.5 lb Al/Acre)			
Applications				
Apply specified dosage in one of the following methods:				
apply to newly planted trees or those previously trained wetted to break soil surface tension prior to applications	ickle, micro-sprinkler or equivalent equipment. For optimum results, to drip, trickle or micro-sprinkler irrigation. Soil should be lightly pre- of Gaucho®. Chemigation application can be made separate to normal vatering to move Gaucho® into root-zone. Allow 24 hours before			
2. Soil surface band spray on both sides of the tree. Bands should overlap at the tree base to create a continuous band within the drip-line area of the tree, to be followed immediately with light sprinkler irrigation sufficient to move the product into the upper portion of the root-zone. This method is suitable for very coarse soils with 0.75% organic matter or less;				
	Drench to base of tree not exceeding one-quart total solution per tree immediately around trunk of tree and extending outward covering the entire fibrous root system of the tree. Only recommended for trees up to 8 feet tall;			
	d dosage in 1 to 4 quarts of total solution volume, depending on size of ree trunk and surrounding soil in the immediate vicinity of the tree trunk.			
For suppression of citrus nematode, apply specified dosage through low-pressure chemigation or soil surface band spray only, ensuring complete coverage of the root system and utilizing application directions stated above for the respective application method. Repeated and regular use of Gaucho® over several consecutive growing seasons provides the greatest degree of presented and regular use of Gaucho® over several consecutive growing seasons provides the greatest degree of the root system and the greatest degree of the several consecutive growing seasons provides the greatest degree of the				

nematode suppression and yields the greatest plant response.

CRANBERRY

Pests Controlled	Ratefluid ounces/Acre
Rootgrubs (Scarabaeidae)	70, 110
Rootworms (Chrysomelidae)	7.0 – 14.0
Notes and Restrictions	
Pre-Harvest Interval (PHI): 30 days	
Maximum Gaucho® allowed per season: 14.0 fluid ounces/	Acre (0.5 lb Al/Acre)
Do not apply pre-bloom or during bloom or when bees are ac	ctively foraging
Applications	
Apply specified dosage to moist soil in one of the following m	ethods:
1. As a soil spray (ground application) directed to the root a	and crown area using a minimum of 20 gal of water per acre;
2. As a chemigation application with 600 to 1000 gal water.	
	rated into root-zone by 0.1 - 0.3 inches water/Acre, either with the plied through chemigation. Inadequate incorporation within 24 hours of

Rootgrubs and Rootworms

Best control may be achieved when application is made post-bloom immediately after bees are removed. Applications should target early instar larvae.

Gaucho® has not been tested for crop response in tank mixes with other registered fungicides or insecticides. If tank mixing is desired, premix a sample of the Gaucho® and the desired fungicide or insecticide partner at labeled rates and apply to a small area. Evaluate crop response within 48 hours and for at least two weeks prior to utilizing the tank mix on larger acreage. If crop injury results from the premix test, do not apply the tank mix to larger acreage.

GRAPE

Including: American bunch grape, Muscadine grape and Vinifera grape

	Pests Controlled	Rate fluid ounces/Acre
Eu	ropean fruit lecanium	
Le	afhoppers/Sharpshooters	70.440
Me	ealybugs	7.0 - 14.0
Ph	ylloxera * spp	
	Pests	/ Diseases Suppressed
Gr	apeleaf skeletonizer	
Ne	matodes	10.5 - 14.0
Pie	erce's disease	
No	tes and Restrictions	
Pre	e-Harvest intervai (PHI): 30 days	
Ма	aximum Gaucho® allowed per season: 32.0 fluid ounc	es/Acre (0.5 lb Al/Acre)
Ap	plications	
Ap	ply specified dosage in one of the following methods:	
1.	Chemigation into root-zone through low-pressure drip	o, trickle, micro-sprinkler or equivalent equipment;
2.	Subsurface side-dress shanked into the root-zone on	both sides of the plants followed by irrigation;
3.	Hill drench in sufficient water to insure incorporation i	into the root-zone followed by irrigation.
4.	interval. Treatment(s) should be applied only by 1) ch micro-sprinkler or equivalent equipment; or 2) French	in a single application or two 16 fluid ounce applications on a 30 to 45 day nemigation into root-zone through above ground low-pressure drip, trickle, a plow technique, followed immediately by sufficient irrigation to move the ed and regular use of Gaucho® over several consecutive growing seasons on and yields the greatest plant response.
	r optimum results, make application(s) between bud-bre commended under any of the following conditions:	eak and the pea-berry stage. A total of 32 fluid ounces/Acre is
1.	Where vigorous vine growth is expected;	
2.	In warmer growing areas;	
3.	Where mealybug and European fruit lecanium popula	ations are expected to be heavy;
4.	Where vine populations exceed 600 per acre, or;	
5.	For suppression of nematodes.	
	Repeated and regular use of Gaucho® over several, c e or prevents <i>Phylloxera</i> from becoming established.	consecutive growing seasons controls existing <i>Phylloxera</i> infestations over

HOP ¹

Pests Controlled	Rate fluid ounces/Acre
Aphids	2.8 - 8.4
Notes and Restrictions	
Pre-Harvest Interval (PHI): 60 days	

Maximum Gaucho® allowed per season: 8.4 fluid ounces/Acre (0.3 lb Al/Acre)

Applications

Apply specified dosage in one of the following methods:

- 1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment;
- 2. Subsurface side-dress shanked into the root-zone on both sides of the plants followed by irrigation;
- 3. Hill drench in sufficient water to insure incorporation into the root-zone followed by irrigation.

Higher dosage is recommended where extended residual control is desired or for treating larger vines or vines with dense foliage volume.

^{1/} Use not permitted in California unless otherwise directed by supplemental labeling.

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PECAN

Pests Controlled		Rate fluid ounces/Acre		
Aphids				
Termites		7.0 - 14.0		
Twolined	spittlebug			
	Pests / Dise	ases Suppressed		
Pecan so	ab (from reduction in honeydew deposition)	7.0 – 14.0		
Notes an	d Restrictions			
Maximum Gaucho® allowed per season: 14.0 fluid ounces/Acre (0.5 lb Al/Acre)				
Applications can be made up to 30 days prior to harvest.				
Applicati	ons			
Apply specified dosage prior to or at onset of pest infestation in one of the following methods:				
	 Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent irrigation equipment. Pre-wet soil prior to applications of Gaucho® and allow soil to dry following application and prior to subsequent irrigation; 			
2. Emit	Emitter or spot application in a minimum of 4 fluid ounces of mixture per emitter site;			
3. Shank or subsurface side-dress, injected to a depth just above or just within the root-zone and between the trunk and drip line of the tree canopy. Product should be applied in a minimum of 10 gallons per acre using multiple shanks on both sides of trees. Ensure product placement is below sod or orchard floor debris. Irrigation covering entire treated area should follow within 48 hours to promote uptake by root system.				
and : 18 –	For control of termites, apply specified dosage to slightly moist soil as a high-volume drench to the basal portion of the tree trunk and surrounding soil in the immediate vicinity of the tree trunk. Utilize sufficient carrier volume to penetrate the soil to a depth of 18 – 24 inches to obtain optimum control. Allow soil to dry following treatment and prior to applying any irrigation. Utilize higher dosage for treatment of larger trees, soils with high clay content, or for high plant populations.			
Remarks				
Use the higher rates when applied by shank or subsurface sidedress, used on larger trees, soils with high clay content, for high plant				

populations, and/or where extended control is desired. Under some conditions, control may not occur for 14 or more days or until two (2) irrigations have been made. Applications made later in the season may result in reduced efficacy.

POME FRUIT 1

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

Pests Controlled	Rate fluid ounces/Acre
Aphids (including woolly apple aphid) Leafhoppers	7.0 – 10.5
Notes and Restrictions	
Pre-Harvest Interval (PHI): 21 days	
Maximum Gaucho® allowed per season: 10.5 fluid ounces/Ac	cre (0.38 lb Al/Acre)
Do not apply pre-bloom or during bloom or when bees are activ	vely foraging
Applications	
Apply specified dosage in the following method:	
1. Chemigation into root-zone through low-pressure drip, trickle	e, micro-sprinkler or equivalent equipment.
^{1/} Use not permitted in California unless otherwise directed by s	supplemental labeling.

STONE FRUIT ${}^{\underline{y}}$

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Including: Apricot, Cherry (including sweet and tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh and dried)

Pests Controlled	Rate fluid ounces/Acre
Aphids (including woolly apple aphid) Leafhoppers	7.0 – 10.5
Notes and Restrictions	
Pre-Harvest Interval (PHI): 21 days	
Maximum Gaucho® allowed per season: 10.5 fluid ounce	s/Acre (0.38 lb Al/Acre)
Do not apply pre-bloom or during bloom or when bees are	actively foraging
Applications	
Apply specified dosage in the following method:	
1. Chemigation into root-zone through low-pressure drip, t	rickle, micro-sprinkler or equivalent equipment.
^{1/} Use not permitted in California unless otherwise directed	by supplemental labeling.
Pre-plant, Root Dip Application	
Pests Controlled	Rate fluid ounces/10 gallons root-dip solution
Black peach aphid (infesting roots)	0.87 (26 mLs)

possible following treatment.

TROPICAL FRUIT 1/

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

Pests Controlled	Rate fluid ounces/Acre
Aphids	
Leafhoppers	10.5 - 14.0
Whiteflies	
Pests / Disea	ases Suppressed
Scales	14.0
Notes and Restrictions	
Pre-Harvest Interval (PHI): 6 days	
Maximum Gaucho® allowed per application: 14.0 fluid ounces//	Acre (0.5 ib Al/A).
Do not apply pre-bloom or during bloom or when bees are active	ly foraging
Applications	
Apply specified dosage in the following method:	
1. Chemigation through low-pressure drip, trickle, micro-sprinkler	or equivalent equipment.
¹ / Use not permitted in California unless otherwise directed by su	pplemental labeling.

POPLAR / COTTONWOOD 1/

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(includes members of the genus Populus grown for pulp or timber)

Pests Controlled	Rate fluid ounces/Acre
Aphids	
Cottonwood leaf beetle	7.0 – 14.0
	ses Suppressed
Phylloxerina popularia	7.0 – 14.0
Notes and Restrictions	
Maximum Gaucho® allowed at-plant per crop season: 14.0 fluid	ounces/Acre (0.5 lb Al/Acre)
Do not apply pre-bloom or during bloom or when bees are actively	y foraging
Applications	
Apply specified dosage in the following methods:	
1. Chemigation through low-pressure drip irrigation.	
 For narrow-row, cutting orchards/nurseries used for plant propa promote uptake. (Adequate irrigation depends on soil moisture recommended). 	
For Cottonwood leaf beetle, protection against damage will occ begin feeding. Larger trees may require earlier treatment as a re	our when application is made early-season, when the beetles firs sult of slower uptake.
For Phylloxerina, apply early in the year, from break of dormancy	through May.
¹ / Use not permitted in California unless otherwise directed by sup	plemental labeling.
Cutting/Whip Application recommendations. See details above	
Pests Controlled	Cutting/Whip Soaking Solution fluid ounces Gaucho® Needed per 100 gallons
	5.8 – 11.6 (unhydrated cuttings/whips)
Cottonwood leaf beetle	11.6 – 17.5 (partially hydrated cuttings/whips)
Pests / Diseas	ses Suppressed
Aphids	5.8 – 11.6 (unhydrated cuttings/whips)
Phylloxerina popularia	11.6 – 17.5 (partially hydrated cuttings/whips)
Notes and Restrictions	
Maximum Gaucho® allowed at-plant per crop season: 14.0 fluid d	punces/Acre (0.5 lb Al/Acre)
Applications	
quantity of solution and require a lower concentration. Conversely higher concentration. Soaking of cuttings/whips should occur in a clones/varieties/hybrids have been tested for crop safety. Without	nt soaking interval of 24 hours, drier cuttings/whips absorb a higher y, more hydrated cuttings/whips absorb less solution and require a covered container in absence of UV light. Not all <i>Populus</i> sp.
Apply Gaucho® in one of the following cuttings/whips soaking me	
For freshly cut (unhydrated) cuttings/whips, soak plant material in After removal from cold storage, plant as needed.	n specified solution concentration for 24 hours prior to cold storage.
For previously hydrated cuttings/whips removed from cold storag specified solution concentration for 24 hours prior to planting.	e, allow plant material to reach room temperature and soak in

Proper care should be taken in disposal of any residual soaking solution. Solution may be applied to existing trees or other registered crops as long as all product label precautions and restrictions are observed.

¹⁷ Use not permitted in California unless otherwise directed by supplemental labeling.

CHRISTMAS TREE^{1/}

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Pests Controlled	Rate fluid ounces/Acre		
White grub complex			
(damage from grubs of Asiatic garden beetle, European and Masked chafer, Japanese beetle and oriental beetle)	7.0 – 14.0		
Notes and Restrictions			
Maximum Gaucho® allowed per season: 14.0 fluid ounces/Acre (0.5 lb Al/Acre)			
Do not apply pre-bloom or during bloom or when bees are actively foraging			
Applications			
Soil incorporation and movement of Gaucho® to the root-zone is required for activity. Gaucho® can be incorporated most readily when applied to moist soil. Apply specified dosage in one of the following methods:			
1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment;			
 18-inch band on each side of the row (small trees) to full broadcast application (large trees) followed by rainfall or 0.25 – 1 inch of irrigation within 12 hours after application. 			
For optimal grub control, apply Gaucho® during adult flight activity, or up to mid-July, when 1 st instar larvae are present.			
9 Use not permitted in California unless otherwise directed by supplemental labeling.			

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience. All such risks shall be assumed by the user or buyer.

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