

264-758 6.17.2003

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0080

1/21



United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number 264-758	2. EPA Product Manager Dani Daniel / Dan Kenny	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) ADMIRE® 2 Flowable Insecticide	PM#	
5. Name and Address of Applicant (Include ZIP Code) Bayer Corporation 8400 Hawthorn Rd Kansas City, MO 64120  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**NOTIFICATION**  
JUN 17 2003

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of alt brand name = Admire® Systemic Protectant Insecticide per PR Notice 98-10. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

### Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Metal Plastic Glass Paper Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt.			
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product		<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____	

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name James Lee Kunstman	Title Reg. Manager, Insecticides	Telephone No. (include Area Code) (915) 549-2823
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Reg. Manager, Insecticides	
4. Typed Name James Lee Kunstman	5. Date May 8, 2003	

JUN 17 2003

# Admire<sup>®</sup> Systemic Protectant Insecticide

For control of certain insects infesting various crops.

**ACTIVE INGREDIENT:**  
 Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine ..... 21.4%

**OTHER INGREDIENTS:** ..... 78.6%

100.0%

**EPA Reg. No. 264 - 758** **EPA Est. No. \_\_\_\_**

Contains 2 pounds of imidacloprid per gallon. **SHAKE WELL BEFORE USING**

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

For **MEDICAL** And **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day 1-800-334-7577  
 For **PRODUCT USE** information Call 1-866-99BAYER (1-866-992-2937)

### FIRST AID

<b>If swallowed</b>	<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>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. 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>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p><b>In case of emergency call toll free the Bayer CropScience Emergency Response Telephone No. 1-800-334-7577. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.</b></p>	
<p><b>Note To Physician:</b> No specific antidote is available. Treat the patient symptomatically.</p>	

### 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
- Water-proof gloves
- 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.

### 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
- Waterproof gloves
- 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.

Do not apply this product through any type of irrigation system unless it is specified in the "Recommended Application" section.

**MIXING INSTRUCTIONS:** To prepare the spray, add a portion of the required amount of water to the spray tank and with agitation add Admire® Systemic Protectant. Complete filling tank with balance of water needed. Maintain sufficient agitation during both mixing and application.

Admire® Systemic Protectant may also be used with other pesticides and/or fertilizer solutions as recommended under specific crop use directions (see NOTE below). When tank mixtures of Admire® Systemic Protectant and other pesticides are involved, prepare the tank mixture as recommended above. When pesticide mixtures are needed, add wettable powders first, Admire® Systemic Protectant, or other flowables second, and emulsifiable concentrates last. Ensure good agitation as each component is added. Do not add the second component in the mixture until the tank contains at least 1/2 of desired amount of water. 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.

**NOTE:** Test compatibility of the intended tank mixture before adding Admire® Systemic Protectant 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 redispense indicates an incompatible mixture that should not be used. For further information, contact your local Bayer CropScience representative.

**RESISTANCE:** 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. Consult your agricultural advisor for resistance management strategies and recommended pest management practices for your 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.

**USE IN CHEMIGATION SYSTEMS**

**Types of Irrigation Systems:** Apply Admire® Systemic Protectant only through low-pressure irrigation systems. Do not apply Admire® Systemic Protectant through any other type of irrigation system.

**GENERAL DIRECTIONS FOR ALL RECOMMENDED TYPES OF IRRIGATION SYSTEMS**

**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 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:** DO NOT APPLY ADMIRE® SYSTEMIC PROTECTANT 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.

Admire® Systemic Protectant may be applied through irrigation systems which 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.

Any 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 back toward the injection pump.

RECOMMENDED APPLICATIONS		
CROP	PEST	RATE PER APPLICATION
Cotton	Aphids Plantbugs Thrips Whiteflies	Soil Application (Early Season Control Only) 1.3 fl oz per 1000 row feet
<b>SOIL APPLICATION</b> Apply specified dosage as a narrow band directly below the seed row in a bedding operation 7 or fewer days before planting or as an in-furrow spray during planting. Do not apply more than 0.33 lb active ingredient per acre as a soil application. <b>NOTE:</b> Regardless of formulation or method of application, apply no more than 0.5 lb active ingredient of Admire® or Provado® per acre per season, including seed treatment, soil and foliar uses. Do not apply more than a total of 6 field applications per season. Do not graze treated fields after any application of Admire®.		

RECOMMENDED APPLICATIONS		
CROP	PEST	RATE PER APPLICATION
Potato	Aphids Colorado potato beetle Flea beetles Potato leafhopper Psyllids Wireworms (seed-piece protection only)	Soil Application 0.9 to 1.3 fl oz per 1000 row feet (see rate conversion chart for rates per acre)
<b>SOIL APPLICATION</b> Apply specified dosage in one of the following methods: 1. As a narrow band directly below the seed row in a bedding operation 7 or fewer days before planting. 2. As an in-furrow spray during planting. For best results, direct spray on the seed pieces or seed potatoes in the furrow. 3. As a sidedress on both sides of the potato row or as a spray at ground cracking directly over the row during hilling. In either case, Admire® must be covered immediately with 3 or more inches of soil. The higher rate is recommended when planting into muck soils, for seed potato production, or when extended length of control is needed. Do not apply more than 0.31 lb active ingredient of Admire® per acre per season as a soil application regardless of formulation. <b>NOTE:</b> Regardless of formulation or type of application (soil or foliar), do not apply more than a total of 0.31 lb active ingredient of Admire® or Provado® per acre per season.		
Potato seed-pieces **	Aphids Colorado potato beetle Flea beetles Potato leafhopper Psyllids Wireworms (seed-piece protection only)	0.4 to 0.8 fl oz per 100 lbs of seed-pieces (8 to 16 fl oz per acre)*

**REMARKS:** Apply specified dosage as a non-diluted or diluted spray onto seed-pieces using a shielded spray system. For dilute applications, do not dilute with any more than 3 parts water to 1 part Admire® Systemic Protectant. Agitate or stir spray solution as needed. If a fungicidal or inert absorbent dust is applied, make the Admire application before applying the dust.

Apply only in areas with adequate ventilation or in areas that are equipped to remove spray mist or dust.

Plant seed-pieces as soon as possible after cutting and treating in accordance with the recommendations of your local extension potato specialist.

Avoid prolonged exposure of Admire® Systemic Protectant-treated seed-pieces to sunlight. Do not use treated seed-pieces for food, feed, or fodder.

The length of control will vary depending on the rate used. Consult your local Bayer CropScience or Gustafson representative or dealer for information relevant to your area.

**NOTE:** Do not apply any subsequent application of imidacloprid (i.e. GAUCHO dust, Admire® in-furrow, or Provado®) following an Admire® seed-piece treatment.

\* Based on a seeding rate of 2000 lb/acre.

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

**RECOMMENDED APPLICATIONS**

**VEGETABLES - Root Vegetables <sup>1/2</sup>**

CROP	PEST	RATE PER APPLICATION	
		Rate fluid ounces/1000 row-feet	Rate fluid ounces/Acre
Beet (garden) <sup>3/</sup>	Aphids	0.7 – 1.7	10.0 – 24.0
Carrot <sup>3/</sup>	Flea beetles		
Burdock (edible) <sup>3/</sup>	Leafhoppers		
Celeriac <sup>3/</sup>	Whiteflies (including sweetpotato or silverleaf whitefly)		
Chervil (turnip-rooted) <sup>3/</sup>			
Chicory <sup>3/</sup>			
Ginseng			
Horseradish			
Parsley (turnip-rooted)			
Parsnip <sup>3/</sup>			
Radish <sup>3/</sup>			
Oriental radish (diakon) <sup>3/</sup>			
Rutabaga <sup>3/</sup>			
Salsify			
Salsify (black) <sup>3/</sup>			
Salsify (Spanish)			
Skirret			
Turnip <sup>3/</sup>			

**NOTES AND RESTRICTIONS:**

Pre-Harvest Interval (PHI): **21 days.**

Maximum Admire® allowed per crop season: **24.0 fluid ounces/Acre** (0.375 lbs AI/Acre), regardless of row spacing.

Maximum Admire® applications per crop season: **1.**

Maximum imidacloprid allowed per crop season: **0.50 lbs AI/Acre**, from any formulation, on any row spacing.

**APPLICATIONS:** Apply specified dosage of Admire® in one of the following methods:

1. Chemigation through low-pressure drip, trickle, micro-sprinkler or equivalent equipment;
2. In-furrow spray (rate specified per 1000 row-feet) or, shanked-in 1 to 2 inches below seed depth during planting;
3. In a narrow (2 inches or less) band directly (1 to 2 inches) below the eventual seed row in a bedding operation 14 or fewer days before planting.

**The rate applied affects the length of control. Use higher rates where infestations occur later in crop development, or where pest pressure is continuous. Admire® rates less than 0.7 fluid ounces/1000 row-feet will not provide adequate residual pest control. Admire® treated crops grown on very high organic matter soils (muck) may also require additional pest management control.**

For resistance management purposes, foliar application of Provado® is not recommended following a soil application of Admire® in the same crop.

<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.

<sup>3/</sup> Tops or greens from these crops may be utilized for food or feed.

**NOTE:** Regardless of the type of application (soil or foliar) or type of formulation, do not apply more than 0.5 lb ai of Admire® or Provado® per acre per year.

RECOMMENDED APPLICATIONS			
VEGETABLES - Tuberous and Corn Vegetables <sup>1/2/</sup>			
CROP	PEST	RATE PER APPLICATION	
		Rate fluid ounces/1000 row-feet	Rate fluid ounces/Acre
Arracacha	Aphids	0.7 - 1.7	10.0 - 24.0
Arrowroot	Leafhoppers		
Artichoke (Chinese and Jerusalem)	Whiteflies (including sweetpotato or silverleaf whitefly)		
Canna (edible)			
Casava (bitter and sweet) <sup>3/</sup>			
Chayote (root)			
Chufa			
Dasheen <sup>3/</sup>			
Ginger			
Leren			
Sweet potato <sup>3/</sup>			
Tanier <sup>3/</sup>			
Tumeric			
Yam bean			
Yam (true) <sup>3/</sup>			

**NOTES AND RESTRICTIONS:**

Pre-Harvest Interval (PHI) from planting application: **3 days** (leaves); **125 days** (tubers or corms).

Maximum Admire® allowed per crop season: **24.0 fluid ounces/Acre** (0.375 lbs AI/Acre), regardless of row spacing.

Maximum Admire® applications per crop season: 1.

Maximum imidacloprid allowed per crop season: 0.50 lbs AI/Acre, from any formulation, on any row spacing.

**APPLICATIONS:** Apply specified dosage of Admire® 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 0.6 fluid ounces/1000 row-feet no later than 45 days after-planting. **Observe same PHI as above.**

The rate applied affects the length of control. Use higher rates where infestations occur later in crop development, or where pest pressure is continuous. Admire® rates less than 0.7 fluid ounces/1000 row-feet will not provide adequate residual pest control. Admire® treated crops grown on very high organic matter soils (muck) may also require additional pest management control.

<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.

<sup>3/</sup> Tops or greens from these crops may be utilized for food or feed.

RECOMMENDED APPLICATIONS		
VEGETABLES - Legumes (Direct-seed or Transplant) (Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.)		
CROP	PEST	RATE PER APPLICATION
<p>Edible Podded Beans (Including runner bean, snap bean, wax bean, asparagus bean, Chinese longbean, moth bean, yardlong bean, jackbean)</p> <p>Edible Podded Peas * (Including dwarf pea, edible-podded pea, snow pea, sugar snap pea, jackbean, pigeon pea, soybean (immature seed) and sword bean)</p> <p>Succulent Shelled Beans (Including lima bean (green), broad bean (succulent), blackeyed pea, cowpea, and southern pea)</p> <p>Succulent Shelled Peas * (Including english pea, garden pea, green pea and pigeon pea)</p> <p>Dried Shelled Beans * Dried cultivars of bean (grain, sweet, white, white sweet lupin, field bean, kidney bean, dry lima bean, navy bean, pinto bean, tepary bean, adzuki bean, blackeyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean).</p> <p>Dried Shelled Peas * Dried cultivars of pea (dwarf pea, edible-podded pea, english pea, field pea, garden pea, green pea, snow pea, sugar snap pea).</p> <p>Other Beans and Peas * Broad bean (dry), Chickpea (dry), Guar (dry), Lablab bean (dry), Lentil (dry), Pigeon pea (dry).</p>	<p>Aphids</p> <p>Leafhoppers</p> <p>Thrips (foliar feeding only)</p> <p>Whiteflies (Including Sweetpotato or Silverleaf whitefly)</p>	<p><b>Soil Application</b></p> <p>16 to 24 fl oz/A</p> <p>(See conversion chart for linear application rates)</p>
<p><b>SOIL APPLICATION</b></p> <p>Apply specified dosage in sufficient carrier volume to insure uniform application and incorporate into the soil using one of the following methods:</p> <ol style="list-style-type: none"> <li>In a narrow band centered on the plant row in the bedding operation 14 or fewer days prior to planting. For best results band width should be 2" or less and placed 1" to 2" below the seed depth.</li> <li>In-furrow spray at or below seed level or a narrow (2" or less) surface band above the seedline during planting. For surface-banded applications incorporate to a depth of 1-1/2" with sufficient irrigation within 24 hours to insure satisfactory insect control.</li> <li>As a post-seeding drench or hill drench. Applications should be made with sufficient water to insure incorporation into the root zone.</li> <li>As a sidedress or shank application after plants are established. Shank applications may be made in water or fertilizer solution. Applications should be placed within 2 to 4 inches to the side of each row and incorporated 2 or more inches deep. Applications should be made to each row if there are two rows per bed. Applications made outside this zone or under prolonged dry soil conditions may not provide adequate protection. Admire® should be placed in the soil where sufficient moisture is maintained and available for continuous root uptake of Admire® and will allow for proper root development in the treatment zone.</li> <li>In drip or trickle irrigation water. Emitters should be positioned as close to the plant base as practical to allow for rapid uptake by the root system. As distance between emitter and plant base increases, allow sufficient time for roots to train to the emitter site prior to Admire® treatment. Applications made prior to root system training to the emitter site may result in delayed uptake and shortened residual control. Flush irrigation lines to clear all particulate matter prior to injection of Admire®. Inject Admire® into the lines after the irrigation filters. Inject Admire® slowly into the irrigation water to allow for uniform distribution throughout the system. See directions for use in chemigation systems.</li> </ol> <p>The rate applied affects the length of control. Use higher rates where infestations occur later in crop development, or where pest pressure is continuous.</p> <p>Do not apply a soil application within 21 days of harvest. Do not apply more than 24 fluid ounces of Admire® Systemic Protectant per acre per year as a single soil application.</p> <p>* Use on peas (edible-podded and succulent) and dried shelled peas and beans not permitted in California unless otherwise directed by supplemental labeling.</p>		
<p><b>NOTE:</b> Regardless of the type of application (soil or foliar) or type of formulation, do not apply more than 0.5 lb ai of Admire® or Provado® per acre per year.</p>		



<b>RECOMMENDED APPLICATIONS</b>		
<b>VEGETABLES - Fruiting Vegetables</b> (Direct-seed or Transplant) (Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.)		
<b>CROP</b>	<b>PEST</b>	<b>RATE PER APPLICATION</b>
Pepper (Including Bell peppers, Chili peppers, Cooking peppers, Pimentos and Sweet peppers) Okra *	Aphids Colorado potato beetle Flea beetles Leafhoppers Thrips (Foliar-feeding thrips only) Whiteflies (Including Sweetpotato or Silverleaf whitefly)	<b>Soil Application</b> 16 to 32 fl oz per acre (See conversion charts for linear application or individual plant application rates.)
Eggplant Tomato Ground cherry Pepinos Tomatillo	Aphids Colorado potato beetle Flea beetles Leafhoppers Thrips (Foliar-feeding thrips only) Whiteflies (Including Sweetpotato or Silverleaf whitefly)	<b>Soil Application</b> 16 to 24 fl oz per acre (See conversion charts for linear application or individual plant application rates.)
<b>SOIL APPLICATION</b>		
Apply specified dosage in sufficient carrier volume to insure uniform application and incorporate into the soil using one of the following methods:		
<ol style="list-style-type: none"> <li>(1) In a narrow band centered on the plant row in the bedding operation 14 or fewer days prior to planting. For best results band width should be 2" or less and placed 1 to 2" below the seed depth.</li> <li>(2) In-furrow spray at or below seed level or a narrow surface band above the seedline during planting. For surface-banded applications incorporate to a depth of 1-1/2" with sufficient irrigation within 24 hours to insure satisfactory insect control.</li> <li>(3) As a post-seeding drench, transplant drench, or hill drench. Applications should be made with sufficient water to insure incorporation into the root zone.</li> <li>(4) As a sidedress after plants are established. Applications should be placed within 2 to 4 inches to the side of each row and incorporated 1 or more inches deep. Applications should be made to each row if there are two rows per bed.</li> <li>(5) In drip or trickle irrigation water.</li> </ol>		
The rate applied affects the length of control. Use the high rate where infestations occur later in crop development, or where pest pressure is continuous.		
Admire® will not control thrips infesting flowers or blooms.		
Do not apply a soil application within 21 days of harvest.		
For pepper do not apply more than 32 fluid ounces of Admire® Systemic Protectant per acre per year as a soil application. For eggplant, tomato, ground cherry, pepinos or tomatillos, do not apply more than 24 fluid ounces of Admire® Systemic Protectant per acre per year as a single soil application.		
<b>NOTE:</b> Regardless of the type of application (soil or foliar) or type of formulation, do not apply more than 0.5 lb ai of Admire® or Provado® per acre per year.		
* Use not permitted in California unless otherwise directed by supplemental labeling.		

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RECOMMENDED APPLICATIONS		
VEGETABLES - Cole Crops (Direct-seed or Transplant) (Except those grown for seed)		
CROP	PEST	RATE PER APPLICATION
Broccoli Brussels sprouts Cabbage Cauliflower Broccoli, Chinese <i>(gai lan)</i> Broccoli raab <i>(rapini)</i> Cabbage, Chinese <i>(bok choy, napa)</i> Cabbage, Chinese mustard <i>(gai choy)</i> Collards Kale Kohlrabi Mizuna Mustard greens Mustard spinach Rape greens Turnip tops (leaves)	Aphids Whiteflies (Including Sweetpotato or Silverleaf whitefly)	<b>Soil Application</b> 10 to 24 fl oz per acre (See conversion chart for linear application rates.)
<b>SOIL APPLICATION</b> Apply specified dosage in sufficient carrier volume to insure uniform application and incorporate into the soil using one of the following methods: (1) In a narrow band centered on the plant row in the bedding operation 14 or fewer days prior to planting. For best results band width should be 2" or less and placed 1" to 2" below the seed depth. (2) In-furrow spray at or below seed level or a narrow (2" or less) surface band above the seedline during planting. For surface-banded applications incorporate to a depth of 1-1/2" with sufficient irrigation within 24 hours to insure satisfactory insect control. (3) As a post-seeding drench, transplant drench, or hill drench. Applications should be made with sufficient water to insure incorporation into the root zone. (4) As a sidedress after plants are established. Applications should be placed within 2 to 4 inches to the side of each row and incorporated 1 or more inches deep. Applications should be made to each row if there are two rows per bed. (5) In drip or trickle irrigation water. The rate applied affects the length of control. Use higher rates where infestations occur later in crop development, or where pest pressure is continuous. Do not apply a soil application within 21 days of harvest. Do not apply more than 24 fluid ounces of Admire® Systemic Protectant per acre per year as a single soil application.		
<b>NOTE:</b> Regardless of the type of application (soil or foliar) or type of formulation, do not apply more than 0.5 lb ai of Admire® or Provado® per acre per year.		

11/21

RECOMMENDED APPLICATIONS		
VEGETABLES -Leafy Petiole (Direct-seed or Transplant) (Except those grown for seed)		
CROP	PEST	RATE PER APPLICATION
Cardoon Celery Chinese celery Celtuce Florence fennel Rhubarb Swiss chard	Aphids Leafhoppers Whiteflies (Including Sweetpotato or Silverleaf whitefly)	10 to 24 fl oz/A (See conversion chart for linear application rates.)
<b>SOIL APPLICATION</b>		
Apply specified dosage in sufficient carrier volume to insure uniform application and incorporate into the soil using one of the following methods:		
<ol style="list-style-type: none"> <li>1) In a narrow band centered on the plant row in the bedding operation 14 or fewer days prior to planting. For best results band width should be 2" or less and placed 1" to 2" below the seed depth.</li> <li>2) In-furrow spray at or below seed level or a narrow (2" or less) surface band above the seedline during planting. For surface-banded applications incorporate to a depth of 1-1/2" with sufficient irrigation within 24 hours to insure satisfactory insect control</li> <li>3) As a post-seeding drench, transplant drench, or hill drench. Applications should be made with sufficient water to insure incorporation into the root zone.</li> <li>4) As a sidedress after plants are established. Applications should be placed with 2 to 4 inches to the side of each row and incorporated 1 or more inches deep. Applications should be made to each row if there are two rows per bed.</li> <li>5) In drip or trickle irrigation water.</li> </ol>		
The rate applied affects the length of control. Use higher rates where infestations occur later in crop development, or where pest pressure is continuous.		
Do not apply a soil application within 45 days of harvest.		
Do not apply more than 24 fluid ounces of Admire® Systemic Protectant per acre per year as a single soil application ( <b>See Note</b> ).		
<b>NOTE:</b> Regardless of the type of formulation or application method, do not apply more than 0.5 lb imidacloprid per acre per year.		

12/21

<b>RECOMMENDED APPLICATIONS</b>		
<b>VEGETABLES - Leafy Vegetables</b> (Direct-seed or Transplant) (Except those grown for seed)		
<b>CROP</b>	<b>PEST</b>	<b>RATE PER APPLICATION</b>
Lettuce (Head & Leaf) Amaranth Arugula Chervil Chrysanthemum, edible leaved Chrysanthemum, garland Cilantro Corn salad Cress, garden Cress, upland Dandelion Dock (sorrel) Endive (escarole) Orach Parsley Purslane, garden Purslane, winter Raddicchio (red chicory) Spinach Spinach, New Zealand Spinach, vine Watercress* Watercress, Upland*	Aphids Leafhoppers Whiteflies (Including Sweetpotato or Silverleaf whitefly)	<b>Soil Application</b> 10 to 24 fl oz/A (See conversion chart for linear application rates.)
<b>SOIL APPLICATION</b>		
<p>Apply specified dosage in sufficient carrier volume to insure uniform application and incorporate into the soil using one of the following methods:</p> <ol style="list-style-type: none"> <li>(1) In a narrow band centered on the plant row in the bedding operation 14 or fewer days prior to planting. For best results band width should be 2" or less and placed 1" to 2" below the seed depth.</li> <li>(2) In-furrow spray at or below seed level or a narrow (2" or less) surface band above the seedline during planting. For surface-banded applications incorporate to a depth of 1-1/2" with sufficient irrigation within 24 hours to insure satisfactory insect control.</li> <li>(3) As a post-seeding drench, transplant drench, or hill drench. Applications should be made with sufficient water to insure incorporation into the root zone.</li> <li>(4) In drip or trickle irrigation water if standing water is not present in field.</li> </ol> <p>The rate applied affects the length of control. Use higher rates where infestations occur later in crop development, or where pest pressure is continuous.</p> <p>Do not apply a soil application within 21 days of harvest.</p> <p>Do not apply more than 24 fluid ounces of Admire® Systemic Protectant per acre per year as a single soil application.</p> <p>* Use not permitted in California unless otherwise directed by supplemental labeling.</p>		
<p><b>NOTE:</b> Regardless of the type of application (soil or foliar) or type of formulation, do not apply more than 0.5 lb ai of Admire® or Provado® per acre per year.</p>		

B/21

**RECOMMENDED APPLICATIONS**

**VEGETABLES - Cucurbits** (Direct-seed or Transplant) (Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.)

CROP	PEST	RATE PER APPLICATION
Balsam pear (bitter melon) Calabaza Chayote (fruit) Chinese okra ( <i>Luffa acutangula</i> ) Chinese waxgourd (Chinese preserving melon) Citron melon Cuban pumpkin Cucumber Gherkin Gourds Edible melons including hybrids (including cantaloupe, casaba, Chinese melon, crenshaw, honeydew melons, honey balls, mango melon, muskmelon, Persian melon, winter melon), Pumpkin Squash (including summer, winter, acorn, spaghetti, opel) Watermelon including hybrids	Aphids Cucumber beetles Leafhoppers Thrips (Foliar-feeding thrips only) Whiteflies (Including sweetpotato or silverleaf whitefly)	<p style="text-align: center;"><b>Soil Application</b> 16 to 24 fl oz/A</p> <p>(See conversion charts for linear application or individual plant application rates.)</p>

**SOIL APPLICATION**

Apply specified dosage in sufficient carrier volume to insure uniform application and incorporate into the soil using one of the following methods:

- (1) In a narrow band centered on the plant row in the bedding operation 14 or fewer days prior to planting. For best results band width should be 2" or less and placed 4 to 5" below the seed depth where soil is continuously moist.
- (2) In-furrow spray at or below seed level or a narrow surface band above the seedline during planting. For surface-banded applications incorporate to a depth of 1-1/2" with sufficient irrigation within 24 hours to insure satisfactory insect control. Seedline or surface-banded applications are more effective in sprinkler-irrigated fields, or areas with adequate natural rainfall to maintain proper soil moisture.
- (3) As a post-seeding drench, transplant drench, or hill drench. Applications should be made with sufficient water to insure incorporation into the root zone.
- (4) As a sidedress after plants are established. Applications should be placed within 2 to 4 inches to the side of each row and incorporated 1 or more inches deep. Applications should be made to each row if there are two rows per bed. Applications made outside this zone or under prolonged dry soil conditions may not provide adequate protection. Admire® should be placed in the soil where sufficient moisture is maintained and available for continuous root uptake of Admire® and will allow for proper root development in the treatment zone. For optimal control in furrow-irrigated melons, Admire® should be injected into the side of the bed at or up to 1-1/2 inches above the bottom of the water furrow. **NOTE:** Sidedress applications of Admire® will provide protection of only the actively growing leaves of the plant and new leaves developed after the application is made. Sidedress applications will not control insect pests that attack older leaves (crown leaves) that exist at the time of application. If insect control on crown leaves is required, other control methods must be used in conjunction with the sidedress application of Admire®.
- (5) In drip or trickle irrigation water. Emitters should be positioned as close to the plant base as practical to allow for rapid uptake by the root system. As distance between emitter and plant base increases, allow sufficient time for roots to train to the emitter site prior to Admire® treatment. Applications made prior to root system training to the emitter site may result in delayed uptake and shortened residual control. Flush irrigation lines to clear all particulate matter prior to injection of Admire®. Inject Admire® into the lines after the irrigation filters. Inject Admire® slowly into the irrigation water to allow for uniform distribution throughout the system. See directions for use in chemigation systems.

The rate applied affects the length of control. Use the high rate where infestations occur later in crop development, or where pest pressure is continuous.

Admire® will not control thrips infesting flowers or blooms.

Do not apply a soil application within 21 days of harvest. For vegetable crops listed, do not apply more than 24 fluid ounces of Admire® Systemic Protectant per acre per year as a single soil application.

**NOTE:** Regardless of the type of application (soil or foliar) or type of formulation, do not apply more than 0.5 lbs ai of Admire® or Provado® per acre per year.

**CONVERSION CHART FOR LINEAR APPLICATION**

RATE /ACRE	Rate in Fluid Ounces / 1000 Row Feet Based On Planted Row Spacing Of:				
	20 inches	30 inches	40 inches	60 inches	80 inches
16 fl oz/acre	0.6	0.9	1.3	1.9	2.5
24 fl oz/acre	0.9	1.4	1.9	2.8	3.8
32 fl oz/acre	1.2	1.8	2.5	3.7	5.0

For crops with double rows on a single bed, calculate rate based on single planted row. For example, if there are double rows on 40-inch beds, the fl oz/1000 row ft rate would be based on a 20-inch spacing.

**ADMIRE® SYSTEMIC PROTECTANT CONVERSION CHART**

Fl Oz per 1000 Row Feet	Row Spacing	Fl Oz per Acre	Lb Active Ingredient per Acre
0.9	30	15.7	0.25
	34	13.8	0.22
	36	13.1	0.20
	38	12.4	0.19
	40	11.8	0.18
	42	11.2	0.18
1.3	30	20.0	0.31
	34	20.0	0.31
	36	18.9	0.30
	38	17.9	0.28
	40	17.0	0.27
	42	16.2	0.25

**CONVERSION CHART FOR INDIVIDUAL PLANT TREATMENTS**

RATE /ACRE	Rate in Fluid Ounces / 1000 Plants Based On Plant Populations (per acre) Of:				
	5000	10,000	15,000	20,000	25,000
16 fl oz/acre	3.2	1.6	1.1	0.8	0.7
24 fl oz/acre	4.8	2.4	1.6	1.2	1.0
32 fl oz/acre	6.4	3.2	2.1	1.6	1.3

**RECOMMENDED APPLICATIONS**

**Greenhouse Vegetables** \* (Mature plants in production greenhouses)

CROP	PEST	RATE PER APPLICATION
Cucumber (mature plants)	Aphids	1.4 fl oz per 1000 plants
Tomato (mature plants)	White Flies	

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 more than once per season. May be applied up to the day harvest.

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* spp.) can occur when Admire is applied.

Many varieties of vegetables have been tested for tolerance to imidacloprid and show good safety. However, certain varieties may show more sensitivity to imidacloprid, and, therefore, treatment of a few plants is recommended before application is made to the whole greenhouse.

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

**TREE, VINE AND FRUIT CROPS**

<b>RECOMMENDED APPLICATIONS</b>		
<b>BUSH BERRIES *</b>		
<b>CROP</b>	<b>PEST</b>	<b>RATE PER APPLICATION</b>
Currant Elderberry Gooseberry Huckleberry Juneberry Lingonberry Salal	Oriental beetle (larvae) Japanese beetle (larvae)	<b>Soil Application</b> 16 to 32 fl oz per acre
<b>SOIL APPLICATION</b>		
<p>Application to grass covered rows, row middles, drive lanes, headlands, and other grassy areas in and around the berry field will control resident grub populations.</p> <p>Application to the berry root zones will protect berry roots from grub feeding.</p> <p>For optimum control of Japanese beetle larvae, make applications from June 1 to July 15.</p> <p>Best control is achieved when Admire® is applied to control 1st or 2nd instar larvae.</p> <p>Application may be made postbloom up to 7 days prior to harvest, or postharvest until October 1st.</p> <p>Do not apply during bloom.</p> <p>Apply specified dosage of Admire® in one of the following methods:</p> <ol style="list-style-type: none"> <li>As a ground application in a minimum of 20 gal of water per acre. (Application to root zones may be made as 18" band on each side of the row).</li> <li>As a chemigation application through suitable trickle or irrigation system. Follow all directions given under the <b>CHEMIGATION</b> section of the container label.</li> </ol> <p>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 Admire® to facilitate movement into the soil and into the root zone.</p> <p>Do not apply by aerial application.</p> <p>Allow at least 7 days between application and harvest.</p> <p>* Use not permitted in California unless otherwise directed by supplemental labeling.</p>		
<p><b>NOTE:</b> Regardless of formulation or application type (soil or foliar), do not apply more than a total of 0.5 lb active ingredient per acre (Admire® or Provado® or a combination of Admire® and Provado®) per season. Do not apply more than a total of 32 fl oz/acre (0.5 lb ai/acre) per season of Admire® (soil application). No more than one application of Admire® can be used per season.</p>		

<b>RECOMMENDED APPLICATIONS</b>		
<b>CROP</b>	<b>PEST</b>	<b>RATE PER APPLICATION</b>
Cranberry *	Rootgrubs ( <i>Scarabaeidae</i> ) Rootworms ( <i>Chrysomelidae</i> )	<b>Soil Application</b> 16 to 32 fl oz per acre
<p>Apply irrigation water to treatment area for 1 hour before application of Admire®.</p> <p>Apply specified dosage of Admire® in one of the following methods:</p> <ol style="list-style-type: none"> <li>As a ground application in a minimum of 20 gal of water per acre followed by 0.1 to 0.3 inches of irrigation water.</li> <li>As a chemigation application with 600 to 1000 gal water followed by 0.1 to 0.3 inches of irrigation water. Follow all directions given under the <b>CHEMIGATION</b> section of this label.</li> </ol> <p>Best control is achieved when application(s) are made postbloom immediately after bees are removed. Applications should target early instar larvae.</p> <p>Do not apply during bloom.</p> <p>Do not apply by aerial application.</p> <p>Do not apply within 30 days of harvest.</p> <p>Admire® has not been tested for crop response in tank mixes with other registered cranberry fungicides or insecticides. If tank mixing is desired, premix a sample of the Admire® 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.</p> <p>* Use not permitted in California unless otherwise directed by supplemental labeling.</p>		
<p><b>NOTE:</b> Do not apply more than a total of 0.5 lb active ingredient (32 fl oz) of Admire® per acre per season as a soil or chemigation application. Do not make more than two applications per acre per year.</p>		

16/21

RECOMMENDED APPLICATIONS		
CROP	PEST	RATE PER APPLICATION
Strawberry (annual and perennial crops)	Whitefly (including silverleaf whitefly and greenhouse whitefly) Aphids	24-32 fl oz/acre
<p><b>Soil Application</b></p> <p>Apply specified dosage of Admire® by one of the following methods:</p> <ol style="list-style-type: none"> <li>Just prior to transplanting or during transplanting as a plant material or plant hole treatment.</li> <li>In drip irrigation after plants are established or on perennial crops in early spring prior to bud opening.</li> </ol> <p>Apply specified dosage in sufficient water to ensure uniform application and incorporation into the root zone.</p> <p>The rate applied affects the length of control. Use higher rates where infestations may occur later in crop development or where pest pressure is continuous.</p> <p>Allow 14 days between application and harvest.</p>		
Strawberry (perennial crop) Post-harvest application only	White grub complex (Asiatic garden beetle, European Chafer, Japanese beetle, Oriental beetle)	16 to 24 fl oz/acre
<p><b>SOIL APPLICATION</b></p> <p><b>NOTE:</b> Admire® Systemic Protectant may not be applied both in the spring and post-harvest during renovation.</p> <p>Admire® Systemic Protectant must be incorporated into the soil with at least 0.25 inches of irrigation or rainfall within two hours of application.</p> <p>Apply a single application <b>post harvest to coincide with renovation of strawberry fields</b> and during active egg-laying period of beetles.</p> <p>Apply specified dosage of Admire® by one of the following methods:</p> <ol style="list-style-type: none"> <li>As a ground application via boom or backpack sprayer in a minimum of 20 gal. of water per acre followed by 0.25 inches of irrigation within 2 hours of application.</li> <li>As a row band application using an adjusted amount of product based on the treated row band area in proportion to the amount required per full acre. The band width should be equivalent to the width of the anticipated fruiting bed. Irrigate with at least 0.25 inches of water within 2 hours of application.</li> <li>As a chemigation application with 600 to 1000 gal. of water followed by irrigation. Follow all directions given under Chemigation section of the container label. Do not apply by aerial application.</li> </ol> <p>* Use not permitted in California unless otherwise directed by supplemental labeling.</p> <p><b>NOTE:</b> Regardless of application timing or method of application, do not apply more than a total of 32 fl oz (0.5 lb active ingredient) of Admire® per acre per season as a soil or chemigation application.</p>		



RECOMMENDED APPLICATIONS		
CROP	PEST	RATE PER APPLICATION
<b>CITRUS</b> (including grapefruit, lemon, orange, calamondin, citron, chironja, tangelo, tangor, kumquat, lime, mandarin, tangerine, pummelo, and satsuma mandarin)	Aphids Blackfly Citrus leafminer Leafhopper (including Sharpshooters) Mealybug Scales Whitefly  Suppression of Thrips	16 to 32 fl oz per grove acre
	Termites See Note below.	
<b>FIELD APPLICATIONS</b> Apply specified dosage as a soil application prior to or at onset of pest infestations for optimal results. Sufficient water volume should be utilized to ensure even, uniform distribution of the product. Soil should be lightly pre-wetted to break soil surface tension prior to applications of Admire®. Utilize one of the following methods for product application:		
<ol style="list-style-type: none"> <li>1) A surface band sprayed onto the soil on both sides of the tree. Bands should overlap at the tree base to create a continuous band from dripline to dripline of the tree. Bands should not extend wider than the dripline of the trees in any direction. Application should be followed immediately with light sprinkler irrigation capable of applying water to the entire treated area and sufficient to move the product into the upper portion of the root zone. This method suitable for very coarse soils with 0.75% organic matter or less.</li> <li>2) A drench to base of tree. Apply appropriate dosage in a carrier volume 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. Recommended for trees up to 8 feet tall.</li> <li>3) Through microsprinkler irrigation systems below the tree canopy. For optimum results, apply to trees either newly planted or those previously trained to drip/low pressure irrigation. Emitters placed under the tree canopy near the trunk provide better results. Emitters must provide even, uniform distribution of water. Once the irrigation system has reached operating pressure, the Admire® solution should be injected into the system over a time to allow uniform distribution throughout the system. The use of a dye marker in the solution may be used to determine when lines are clear of Admire®. <b>Once the solution has cleared all irrigation lines and emitters, continue irrigation, but do not over irrigate or cause runoff. On sand soils (such as in Florida), this after-irrigation should not be more than 10 minutes.</b> Allow 24 hours before subsequent irrigations. <b>Contact your local BAYER CROPSCIENCE representative for additional information.</b></li> </ol>		
Applications of Admire® through microsprinkler irrigation systems may be done as a separate operation from normal irrigation for crop maintenance purposes. In addition, the injection operation should not be made within 24 hours following normal irrigation.		
Do not apply more than 32 fl oz/grove acre per year.		
<b>Note:</b> For control of existing termite infestations, apply specified dosage in 1 to 4 quarts of total solution volume, depending on size of tree, as a drench application to the basal portion of the tree trunk and surrounding soil in the immediate vicinity of the tree trunk.		
Do not apply more than 32 fl oz/grove acre per year.		

RECOMMENDED APPLICATIONS		
CROP	PEST	RATE PER APPLICATION
Containerized Citrus	Aphids	0.75 mL per cubic foot of container media (except Citrus root weevil)  For Citrus root weevil larvae, 1.25 to 2.5 mL per cubic foot of container media
	Blackfly	
	Citrus leafminer	
	Larvae of Citrus Root Weevil Complex	
	Mealybug	
	Scales	
	Termites	
	Whitefly	
	Leafhopper (including Sharpshooters)	
	Suppression of Thrips	

**APPLICATIONS TO CONTAINERIZED CITRUS**

Determine volume of container and calculate dosage necessary to treat container utilized. Apply calculated dosage of Admire® Systemic Protectant per container as a soil drench or through 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. Treatment should be made at planting prior to insect infestation for optimal results. 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.

RECOMMENDED APPLICATIONS		
CROP	PEST	RATE PER APPLICATION
Pecan**	Black Margined Aphid	SOIL APPLICATION 16 to 32 fl oz per acre
	Black Pecan Aphid	
	Pecan Spittlebug	
	Yellow Pecan Aphid	

**SOIL APPLICATION**

**CHEMIGATION APPLICATION:** Apply specified dosage per acre through trickle irrigation system. Dilute with 7 parts water and inject mixture directly into irrigation main while maintaining agitation of mixture. Follow established chemigation procedures to ensure even distribution of product and to prevent contamination of water supply.

**EMITTER, SPOT APPLICATION:** Apply specified dosage per acre in a minimum of 4 fl oz of mixture per emitter site. Treat at a minimum of 4 emitter sites per tree (if possible, 2 emitters per side on opposite sides of tree row).

**SHANKED-IN, EMITTER ADJACENT APPLICATION:** Apply specified dosage per acre in 10 to 40 gallons of water as an in-furrow spray behind a single shank, set to a depth of 2 to 4 inches in the soil and as close as possible, but within 12 to 14 inches of emitter line. Cover furrow immediately after treatment. Treat the entire distance, and only the distance, wetted by the emitter set of each tree.

**GENERAL APPLICATION GUIDELINES:** Apply only to orchards which have been established on trickle irrigation for at least 5 years. Apply product between May 15 and July 15. Apply product to dry or only slightly moist soil (<10% field capacity) and allow soil to dry prior to additional irrigation. Applications to emitters on only one side of tree may result in uneven insect control within the canopy.

Do not apply more than 32 fluid ounces of Admire® per acre per season as a soil application.

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

**NOTE:** Regardless of formulation or type of application (soil or foliar), do not apply more than a total of 0.5 lb active ingredient of Admire® or Provado® per acre per season.

RECOMMENDED APPLICATIONS		
CROP	PEST	RATE PER APPLICATION
Tobacco	Aphids	Soil Application 1.0 fl oz/1000 Plants
	Fleabeetles	
	Mole Crickets	1.4 to 2.8 fl oz/1000 Plants
	Wireworms	

**SOIL APPLICATION**

Apply specified dosage to the soil in transplant water or as a uniform broadcast application or drench to trays or flats prior to transplanting. Admire® should be mixed with water prior to application. Keep Admire® solution agitated or mix regularly to avoid settling in the spray or transplant tank. Plants in flats or trays should be watered by overhead irrigation to wash Admire® from foliage into potting media. Failure to wash Admire® from foliage may result in a reduction in control.

Adverse growing conditions may cause a delay in uptake of Admire® into the plant and a delay in control.

Do not apply within 14 days of harvest.

**NOTE:** Regardless of formulation or type of application (soil or foliar), do not apply more than a total of 0.5 lb active ingredient of Admire® or Provado® per acre per season.

CONVERSION CHART FOR LINEAR APPLICATION			
RATE/ACRE (fl oz)	Rate in Fluid Ounces / 1000 Row Feet Based On Planted Row Spacing Of:		
	DOUBLE ROW (38" to 40" Beds)	SINGLE ROW (38" to 40" Bed)	SINGLE ROW (30" Bed)
10	0.4	0.8	0.6
16	0.6	1.3	0.9
20	0.8	1.5	1.2
24	1.0	2.0	1.5

**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.

ROTATIONAL PLANT-BACK INTERVALS <sup>1</sup>		
<b>IMMEDIATE PLANT-BACK</b> (all crops on this label plus the following crops not on this label)		
Barley	Sorghum	Wheat
Canola	Sugarbeets	Tropical Fruits *
Corn (field, sweet & pop *)	Mustard Seed *	Stone Fruits *
Rape seed	Artichoke, globe *	
<b>30-DAY PLANT-BACK</b>		
Cereals (including buckwheat, millet, oats, rice, rye, and triticale)	Soybeans *	Safflower
<b>12-MONTH PLANT-BACK</b>		
All Other Crops		

<sup>1</sup> Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed.

\* Popcorn, Mustard Seed, Globe Artichoke, Tropical Fruits, Stone Fruits and Soybeans may not be rotated to treated areas in California unless otherwise directed by supplemental labeling.

**OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING 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 determines 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.

**Buffer Zone Requirements:** For soil or 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.

**Recommendations 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, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure.

Spray should be released at the lowest possible height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

**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.

**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 Soil Conservation Service for recommendations in your use area.

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## IMPORTANT: READ BEFORE USE

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**Bayer CropScience LP  
P.O. Box 12014, 2 T.W. Alexander Drive  
Research Triangle Park, North Carolina 27709  
1-866-99BAYER (1-866-992-2937)**