39709-1045

3/4/2013



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

> OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

March 4, 2013

Premjit Halarnkar, Ph.D., MPA Loveland Products Inc. P.O. Box 1286 Greeley, CO 80632-1286

Subject: Amendment: Removed the Use (Leaf Lettuce) Swagger EPA Reg. No. 34704-1045 Your Submission Dated February 20, 2013

Dear Dr. Halamkar :

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable. A stamped copy of the label is enclosed for your records.

If you have any questions regarding this action, please contact BeWanda Alexander at <u>Alexander.bewanda@epa.gov</u> or (703) 305-7460.

Sincerely,

rida alexander for

Richard Gebken Product Manager Team 10 Insecticide Branch Registration Division (7505P)

Enclosure

RESTRICTED USE PESTICIDE

Toxic to fish and aquatic organisms. For retail sale to and use only by certified applicators, or persons under their direct supervision and only for those uses covered by the certified applicators certification.



ACTIVE INGREDIENTS: Bifenthrin: (2-methyl[1,1'-biphenyl]-3-yl) methyl-3-(2-chloro-3,3,	By Wt.
3-trifluoro-1-propenyl)-2,2-dimethyl-cyclopropanecarboxylate*	
OTHER INGREDIENTS:	

*CIS isomers 97% minimum, trans isomers 3% maximum. This product contains ½ lb. each of Bifenthrin and Imidacloprid active ingredient per gallon.

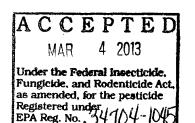
KEEP OUT OF REACH OF CHILDREN DANGER-PELIGRO

This label must be in the possession of the user at the time of application. Si usted no entiende la etiqueta, busque a alguien para que se a explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See other panels for additional precautionary information.

	FIRST AID
lf Swallowed:	 Immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give any liquids to the person. Do not give anything by mouth to an unconscious person.
lf in Eyes:	 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. Call a poison control center or doctor for treatment advice.
lf 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.
lf Inhaled:	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by رز mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
For a medical	ict container or label with you when calling a poison control center or doctor, or goine for treatment. emergency involving this product call: 1-866-944-8565.

Note to physician: This product contains a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.



EPA REG. NO. 34704-1045

EPA EST. NO. 34704-MS-002

NET CONTENTS 1 GAL. (3.78 L)

083112 V2D 02R13/

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin or swallowed. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instruction for Category E on the EPA Chemical resistance category section chart.

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants,
- Protective eyewear,
- Chemical-resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton, and
- Shoes plus socks.

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

USER SAFETY RECOMMENDATIONS

Users should:

- . Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

· Coveralls,

• Chemical resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton, and

· Shoes plus socks.

ENVIRONMENTAL HAZARDS

c c

.....

This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

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

The use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Priot to use in a particular county, contact the local extension service for procedures and precautions to use to protect endangered species.

The chemical imidacloprid demonstrates the properties and characteristics associated with chemicals detected in groundwater. 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.

RESISTANCE MANAGEMENT

Some insects are known to develop resistance to products with the same chemical class used repeatedly for control. Swagger® contains Group 3 and Group 4A insecticides. Although pest resistance can not be predicted, a general rule to reduce the onset of resistance in pest species to Swagger is not to consecutively and repeatedly apply Group 3 and/or Group 4A insecticides during a growing season for control of a particular pest target. Consult your local or state agricultural authorities or your Loveland Products, Inc. representative for more specific details on insect resistance management strategies.

The Group 4A active ingredient in Swagger is a member of the neonicotinoid chemical group. Avoid using a block of more than three consecutive applications of Swagger and/or other Group 4A products having the same or similar mode of action. Following a neonicotinoid block of treatments, Loveland Products, Inc. strongly encourages the rotation to a block of applications with effective products of different mode before using additional applications of neonicotinoid products. Using a block rotation or windowed approach, along with IPM practices, is considered an effective use strategy for preventing or delaying an insect's ability to develop resistance to this class of chemistry.

Foliar applications of Swagger or other Group 4A products from the neonicotinoid chemical class must not be used on crops previously treated with a long-residual, soil-applied product from the neonicotinoid chemical class.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect(s) may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local Loveland Products, Inc. company representative or agricultural advisor for the best alternative method of control for your area.

Application Instructions:

Rate of application is variable according to pest pressure, timing of sprays, and field scouting. Use lower rates under light to moderate infestations; higher rates under heavy insect pressures. Arid climates generally require higher rates.

Use adequate spray volumes, properly calibrated application equipment and Vader® spray adjuvant to obtain thorough coverage. To optimize deposition, penetration, and translocation, use 0.25% v/v of Vader. Other adjuvants must be used at 0.25 to 0.50% v/v.

Cultivation within 10 feet of a water body is prohibited to allow for the growth of a vegetated filter strip.

In New York State, this product may not be applied within 100 feet (using ground equipment) or 300 feet (using aerial equipment) of coastal marshes or streams that drain into coastal marshes.

California Special Equipment and Restrictions: Swagger must be used in a closed system that meets the criteria for closed systems as established by the California Department of Food and Agriculture. The criteria and a list of the closed systems meeting the criteria are available through the California Department of Food and Agriculture.

ROTATIONAL CROPS

Plant back restrictions are determined by the crop. Crops that have tolerances for both bifenthrin and imidacloprid may be rotated at any time. Crops with tolerances for bifenthrin and not imidacloprid can be rotated 12 months following the final application of Swagger. Crops that have tolerances for imidacloprid and not bifenthrin may be rotated 30 days following the final application of Swagger.

Plant back restrictions:

Immediate plant back: Crops on this label, as well as, tobacco, tomatoes, eggplant, peppers (bell and port-bell), ekra, caneberries, citrus, artichoke, lettuce (head), grapes, spinach, pears, hops, legume vegetables (edible podded), tweerous root and corrinder, soybeans and strawberries.

.

cecee

30 Day plant back: Cereals, cucurbits, safflower

10 Month plant back: Onion and bulb vegetables

12 Month plant back: All other crops

MAXIMUM ALLOWABLE USE PER SEASON

Refer to the individual crop sections for maximum allowable Swagger usage per acre per season. The maximum allowable use must include all registered use patterns including at-plant, soil applied and/or foliar applications for the 12 month period. The 12-month period is to begin upon the initial application to the acreage.

Tank Mixture

Swagger may be applied in tank mixtures with other products approved for use on registered crops. Observe all restrictions and precautions which appear on the labels of these products. Test for compatibility of products before mixing.

BUFFER ZONES

Vegetative Buffer Zones

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds).

Only apply product containing bifenthrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers; Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21 pp. http://www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf.

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast)

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for ULV Aerial Application

Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Application

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

SPRAY DRIFT REQUIREMENTS

Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition. Do not apply when the wind velocity exceeds 15 mph.

Temperature Inversion

Do not make aerial or ground applications into temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Droplet Size

Use only medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Additional Requirements for Ground Applications

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop cataby, $c = \frac{1}{2}$

c сс сс For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy. сc ĩ.

¢

сc

eeee

Additional Requirements for Aerial Applications

The spray boom should be mounted on the aircraft so as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter. ilici

Flight speed and nozzle orientation must be considered in determining droplet size. Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unloss a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

CHEMIGATION USE DIRECTIONS

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

For LEPA irrigation, a minimum of 0.75 inch of water per acre is recommended. Where non-emulsified oils are used as the diluent, 1.0 to 2.0 pints per acre is recommended.

Results from utilizing chemigation have been variable and depend upon the set up and calibration of equipment. Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. Contact your State Agricultural Extension Service specialists, equipment manufacturers or other experts for consultation on the suitability of the equipment set up to obtain effective control of the target insect pests.

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. Failure to cease application during a mechanical stoppage may result in undesirable residues to adjacent areas.

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.

Do not apply when wind speed favors drift beyond the area intended for treatment. Swagger should be applied continuously for the duration of the water application. Swagger should be diluted in sufficient volume to ensure accurate application over the area to be treated. When using chemigation, a minimum of 0.5 inch per acre of irrigation water is recommended. Agitation generally is not required when a suitable diluent is used. A diluent test should be conducted to ensure that phase separation will not occur during dilution and application. Failure to achieve a uniform dilution throughout the time of application may result in undesirable residues or less than desirable control.

ARTICHOKE (Globe) (PHI 7 DAYS)

Pest	Use R	lates		
	FI Ozs/A	Lbs AI/A		
Aphid spp.	12.8 to 25.6	0.1 to 0.2		
Artichoke plume moth				
Cribrate weevil				
_eafhopper spp				
Restrictions: Preharvest Interval	(PHI): 7 Days			ιι ι
Ainimum interval between applica			ιςςςι	
		51.2 ounces (0.4 pound active ingredient per	acie) t t	ί.
		son: 0.5 pound active ingredient per acre.	i i	
		: 0.5 pound active ingredient per acre.		
REMARKS: Apply when pest pop	ulation reaches da	amaging threshold and repeat as necessary to	maintair coi	ntrol, but not more
often than 15-day intervals.				i ii
			ι i	

Application by ground: Apply a full cover spray in a minimum of 10.0 gallons of finished spray per acro.

BRASSICA (Head and Stem) (PHI 7 DAYS)

Broccoli, Broccoli (Cavalo), Broccoli (Chinese), Brussels sprouts, Cabbage, Cabbage (Chinese Mustard), Cabbage (Chinese napa), Cauliflower, Cavalo Broccolo, Kohlrabi

Pest	Use F	Pates
	FI Ozs/A	Lbs Al/A
Aphid spp.	8.48 to 12.2	0.066 to 0.095
Armyworm spp.		
Budworm		
Corn earworm		
Crickets		
Cucumber beetle		
Cutworm spp.		
Diamondback moth		
Ground beetles		
Grasshoppers		
Imported cabbageworm		
Leafhopper spp.	Ĩ	
Loopers		
Lygus spp.		
Saltmarsh caterpillar		
Stink bug spp.		
Thrips		
Tobacco budworm		
Whitefly		
Wireworm (adults)		

Restrictions: Preharvest Interval (PHI): 7 Days

Minimum interval between applications: 7 Days

Maximum amount of Swagger allowed per season: 61.44 ounces (0.48 pound active ingredient per acre)

Maximum amount of Bifenthrin allowed per season: 0.5 pound active ingredient per acre.

Maximum amount of Imidacloprid allowed per season: 0.24 pound active ingredient per acre.

Apply Swagger up to 5 applications after bloom.

REMARKS: Apply in a minimum of 2.0 gallons of finished spray per acre by air or in a minimum of 10.0 gallons per acre with ground equipment. When applying by air, 1.0 to 2.0 quarts of emulsified oil may be substituted for 1.0 to 2.0 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

BRASSICA (Leafy Greens) (PHI 7 DAYS)

Broccoli Raab, Cabbage (Chinese bok choy), Collards, Kale, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens

Pest	Use R	ates			
	FI Ozs/A	Lbs AI/A			
Aphid spp.	8.48 to 12.2	0.066 to 0.095			
Armyworm spp.					(()) ()) ()) ()) ()) ()) ())
Budworm				εσαςτα	ίει
Corn earworm					(,
Crickets					
Cucumber beetle					
Cutworm spp.				Ì (LÌ	(L C L
Diamondback moth				CCCCC	i (c)
Ground beetles					Ĺ
Grasshoppers					((
Imported cabbageworm					ł
Leafhopper spp.					
Loopers			I		ι ι (ι
Lygus spp.					
Saltmarsh caterpillar					
Stink bug spp.					
Thrips					
Tobacco budworm					
Whitefly					
Wireworm (adults)					

Brassica (Leafy Greens) cont'd .:

Restrictions: Preharvest Interval (PHI): 7 Days

Minimum interval between applications: 7 Days

Maximum amount of Swagger allowed per season: 61.44 ounces (0.48 pound active ingredient per acre)

Maximum amount of Bifenthrin allowed per season: 0.5 pound active ingredient per acre.

Maximum amount of Imidacloprid allowed per season: 0.24 pound active ingredient per acre.

Apply Swagger up to 5 applications after bloom.

REMARKS: Apply in a minimum of 2.0 gallons of finished spray per acre by air or in a minimum of 10.0 gallons per acre with ground equipment. When applying by air, 1.0 to 2.0 guarts of emulsified oil may be substituted for 1.0 to 2.0 guarts of water in the finished spray. Thorough coverage is essential to achieve control.

CITRUS (PHI 1 DAY)*: Calamondin, Citron citrus, Citrus hybrids (includes chironja, tangelo and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Pummelo, Orange (sweet and sour), Satsuma mandarin, White sapote (Casimiroa spp.), and other cultivars and/or hybrids of these

Pest	Use R	lates
	FI Ozs/A	Lbs AI/A
Aphids	32.0 to 64.0	0.25 to 0.50
Asian citrus psyllid		
Black fly		
Blue green citrus root weevil		
(Pachnaeus opalus)		
Brown leaf notcher		
(Epicacrus mexicanus)		
Diaprepes root weevil		
(Diaprepes abbreviatus)		
Leafhoppers/Sharpshooters		
Leafminers		
Little leaf notcher		
(Artipus floridanus)		
Mealy bugs		
Scales		
Southern blue green citrus root		
weevil <i>(Pachnaeus litus)</i>		
Whiteflies		
Restrictions:		

*Not for use in California

Do not apply by air or through irrigation systems.

Do not apply during bloom or within 10 days prior to bloom or when bees are actively foraging.

Preharvest Interval (PHI): 1 day.

Minimum interval between applications: 10 days.

Maximum amount of Swagger allowed per season: 64.0 ounces (0.5 pound active ingredient per	r acre).	
Maximum amount of Bifenthrin allowed per season: 0.25 pound active ingredient per acre.		i i i i i i i i i i i i i i i i i i i
Maximum amount of Imidacloprid allowed per season: 0.25 pound active ingredient per acre.		c
REMARKS: Citrus		
Do not allow any application of the product to contact fruit or foliage.		ີເີເເ
Apply the specified dosage in a minimum of 40.0 gallons of finished spray per acre.	ίι`	
Scales – time application to the crawler stage. Treat each generation.		

Scales – time application to the crawler stage. Treat each generation.

Where concentrated applications are appropriate, increase the spray solution concentration to apply, are equivalent rate per acre to that applied in the diluted application. The 64.0 fluid ounces per acre rate is based on full sized trees. This rate may be reduced proportionally for smaller trees.

The use of this product protects citrus tree roots from *Diaprepes* and other citrus root weevil feeding by creating a barrier. As Citrus root weevil eggs hatch, the newly hatched larvae (neonates) fall to the soil surface beneath the tree and come into contact with this product as they attempt to burrow into the root zone. Disturbance of the soil beneath the tree should be minimized.

Timing of application is very important. Peak emergence of Diaprepes adults varies by citrus growing region, and environmental factors such as soil moisture can affect citrus root emergence.

Usually, two peaks occur for *Diaprepes*, first in the spring then late summer or early fall. Southern blue green and Blue green citrus weevils and Fuller rose beetle usually have a single emergence peak in the spring. Brown and Little leaf notchers usually have three emergence peaks, spring, summer and fall. Since emergence varies by region and season, the best way to time application is observe the adults. By trapping adults when they are most active (in the morning or and late afternoon) during the spring and summer

Citrus cont'd.:

emergence periods, an estimation of numbers can be obtained. Eggs are laid 8 to 10 weeks following the adult emergence from the soil; larvae invasion into the soil will begin 2 to 3 weeks following adult emergence. This product must be applied prior to the dropping of the neonates. Consult local university extension personnel for current information to protect citrus trees from Citrus root weevils and other pests.

Apply this product by ground equipment to bare soil beneath citrus trees. This product must be uniformly applied from the trunk to the drip line of the tree, apply in a minimum of 40.0 gallons of dilute spray per acre. Greater spray volume should insure greater uniformity of coverage.

A pre and post-application irrigation may aid in the uniformity of coverage as well.

Apply to individual citrus resets, when not in solid planted rows, using hand-gun or shielded sprayer.

Peak emergence of *Diaprepes* root weevil generally occurs in the spring. Depending on weather conditions, a minor emergence of *Diaprepes* root weevil may also occur in the fall.

If the citrus grove to be treated is in an area where weather conditions are conducive to primary emergence occurring in the spring, 32.0 fluid ounces formulated product should be used to obtain the longest residual management of *Diaprepes* root weevil.

If the citrus grove to be treated is in an area where weather conditions will promote more than one peak of pest emergence, 16.0 fluid ounces formulated product can be applied early season and 16.0 fluid ounces formulated product can be applied later in the season.

If emergence extends beyond the residual protection of this product, grower is advised to use additional management strategies (i.e. foliar adult control or soil larvae control such as nematodes). Contact your state agricultural Extension Specialist as to the recommendation suited for local conditions.

Pest	Use R	ates		
	FI Ozs/A	Lbs AI/A		
Aphid spp.	8.48 to 11.0	0.066 to 0.086		
Beet armyworm				
Cabbage looper				
Cutworm spp.				
lea beetle				
Grasshopper				
_eafhopper spp.				
eafminer				
Saltmarsh caterpillar				
potted cucumber beetle				
hrips				
Vhitefly	al (DUI): 7 days	······································	,	
Restrictions: Preharvest Interva				
Ainimum interval between appl		22.28 aunoos (0.26 pound pativo ingradiant -		
		33.28 ounces (0.26 pound active ingredient : 0.5 pound active ingredient per acre.	per acre).	
		on: 0.13 pound active ingredient per acre.		ι ι ι ί ιι
maximum amount or innuaciop	niu alloweu per seas	on, o to pound active ingredient per acte.	c c c	ι
			с с.	cc c
			ιι είις ι (ί (C (C C
			ι, ι ιί	ιι ί ι ι ί
			cecee.	ίιι
			ί ί ί ί ιίιί	ť
				ι ι ι ι ιι.
				L L
				(((L L
				CC CC

CILANTRO and CORIANDER (PHI 7 DAYS)

COTTON (PHI 14 DAYS)

Pest	Use R	ates
	FI Ozs/A	Lbs AI/A
Bandedwinged whitefly	7.6 to 15.4	0.06 to 0.12
Boll weevil		
Cotton aphid		
Cotton fleahopper		
Lygus spp.		
Plant bugs		
(excludes <i>Lygus hesperus</i>)		
Southern garden leafhopper		
Stink bug spp.		
Beet armyworm	10.2 to 15.4	0.08 to 0.12
Bollworm Cabbage looper Cotton leaf perforator Cutworm spp. European corn borer Fall armyworm Kudzu bug Pink bollworm Saltmarsh caterpillar Tobacco budworm Thrips spp. Whitefly Yellow striped armyworm		

Restrictions: Preharvest Interval (PHI): 14 days.

Minimum interval between applications: 7 days.

Maximum amount of Swagger allowed per season: 79.36 ounces (0.62 pound active ingredient per acre).

Maximum amount of Bifenthrin allowed per season: 0.5 pound active ingredient per acre.

Maximum amount of Imidacloprid allowed per season: 0.16 pound active ingredient per acre.

Do not graze livestock in treated areas or cut treated crops for feed.

Do not make more than 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season.

REMARKS: Cotton

Application in Water: Apply in a minimum of 5.0 gallons per acre with ground equipment or 1.0 gallon per acre by aircraft. When applying by air, 1.0 quart of emulsified oil may be substituted for 1.0 quart of water in the finished spray.

ULV Application: Apply the recommended rate of Swagger in refined vegetable oil in a minimum of 1.0 quart of finished spray per acre with aircraft calibrated to give adequate coverage.

To Control Boll Weevil: Apply this product at an interval of 3 to 4 days until pest numbers are reduced to acceptable levels. **To Control Aphids:** Apply when pest first appears. Repeat as necessary to maintain control. Higher rates will be required once a damaging threshold is established.

imaging inreshold is established.	······	
	ιιιι ι ι ι ι ι	
	((()) () ()	ίζί ι ίί ί
	ξι	(((((((((((((((((((
		((2 . (() () () () () () () () () () () () () (

11/23

FRUITING VEGETABLES: Crops of Crop Group 8 including -EGGPLANT, PEPPERS (BELL & NON-BELL), GROUNDCHERRY, PEPINO (PHI 7 DAYS)

Pest	Use F	Rates
	FI Ozs/A	Lbs Al/A
Aphid spp.	7.6 to 19.7	0.06 to 0.15
Leafhopper spp.		
Lygus spp.		
Thrips		
Armyworm spp.	10.2 to 19.7	0.08 to 0.15
Artichoke plume moth		
Cabbage looper		
Colorado potato beetle		
Corn earworm		
Cucumber beetle		
Cutworms		
European corn borer		
Flea beetle		
Leafminer		
Loopers		
Pepper weevil		
Stink bug		
Tomato hornworm		
Tomato pinworm		
Whitefly		

Restrictions: Preharvest Interval (PHI): 7 days.

Minimum interval between applications: 7 days.

Maximum amount of Swagger allowed per season: 51.2 ounces (0.4 pound active ingredient per acre).

Maximum amount of Bifenthrin allowed per season: 0.20 pound active ingredient per acre.

Maximum amount of Imidacloprid allowed per season: 0.24 pound active ingredient per acre.

REMARKS: Apply in a minimum of 2.0 gallons of finished spray per acre by air or in a minimum of 10.0 gallons per acre with ground equipment. When applying by air, 1.0 to 2.0 quarts of emulsified oil may be substituted for 1.0 to 2.0 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

GRAPES (PHI 30 DAYS)

Pest	Use A	ates		
	FI Ozs/A	Lbs Al/A		
Eastern grape leafhopper Glassywinged sharpshooter	7.6 to 12.8	0.06 to 0.10		
Variegated leafhopper				e
Western grape leafhopper				сі і і <u>і</u>
Black vine weevil	10.2 to 12.8	0.08 to 0.10		ι (C
Cutworm spp.				C.
Grape berry moth				()) ()) ()) ())
Grapeleaf skeletonizer			ζ ιίζ ις ζ΄ί ί΄ί	
Japanese beetles (adult)			r c	() () ()
Mealybug			(6) C (1) L (LLI
Restrictions: Preharvest Interval	(PHI): 30 days.			(
Minimum interval between applica				
		12.8 ounces (0.10 pound active ingredient pe	er acre).	(
Maximum amount of Imidaclopric	,			
		: 0.10 pound active ingredient per acre.		

PEANUT¹ (PHI 14 DAYS)

Pest	Use	Rates
	FI Ozs/A	Lbs AI/A
Aphid	7.6 to 11.2	0.06 to 0.0875
Beet armyworm		
Corn earworm		
Cutworm spp.		
Fall armyworm		
Grasshoppers		
Green cloverworm		
Kudzu bug		
Leafhoppers		
Lesser cornstalk borer		
Loopers		
Rednecked peanut worm		
Southern armyworm		
Southern corn rootworm		
Spider mites		
Stink bugs		
Threecornered alfalfa hopper		
Thrips		
Velvetbean caterpillar		
Whiteflies		
Yellowstriped armyworm		

Restrictions: Preharvest Interval (PHI): 14 days.

Minimum interval between applications: 14 days.

(

Maximum amount of Swagger allowed per season: 33.3 ounces (0.26 pound active ingredient per acre).

Maximum amount of Bifenthrin allowed per season: 0.5 pound active ingredient per acre.

Maximum amount of Imidacloprid allowed per season: 0.13 pound active ingredient per acre.

REMARKS:

¹ Use not permitted in California.

Apply foliar treatments in at least 10.0 gallons per acre with ground equipment at the rate of 11.2 fluid ounces (0.08 pound active ingredient) pre acre at a minimum of 14 day intervals. Do not feed green immature plants and peanut hay to livestock.

εει ι ι ι د د' ر ιςιςς ι ς ς ιςιςς ιι ι.

12/23

LETTUCE (HEAD) (PHI 7 DAYS)

Pest	Use R	lates
	FI Ozs/A	Lbs Al/A
Aphid spp.	7.6 to 12.2	0.06 to 0.095
Leafhopper spp.		
Lygus spp.		
Stink bug spp.		
Thrips		
Armyworm	10.2 to 12.2	0.08 to 0.095
Cabbageworm		
Colorado potato beetle		
Corn earworm		
Cucumber beetle		
Cutworm spp.		
Diamondback moth		
European corn borer		
Flea beetle		
Leafminer		
Loopers		
Pepper weevil		
Tomato hornworm		
Tomato pinworm		
Tobacco budworm		
Saltmarsh caterpillar		

Restrictions: Preharvest Interval (PHI): 7 days.

Minimum interval between applications: 7 days.

Maximum amount of Swagger allowed per season: 61.44 ounces (0.48 pound active ingredient per acre).

Maximum amount of Bifenthrin allowed per season: 0.5 pound active ingredient per acre. Maximum amount of Imidacloprid allowed per season: 0.24 pound active ingredient per acre.

REMARKS: Apply in water as necessary for insect control using a minimum of 10.0 gallons of finished spray per acre with ground equipment and 2.0 gallons per acre by air. When applying by air, 1.0 to 2.0 quarts of emulsified oil may be substituted for 1.0 to 2.0 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

HOPS (PHI 28 days)

Pest	Use	Rates	
	FI Ozs/A	Lbs AI/A	
Aphid spp.	7.6 to 25.6	0.06 to 0.2	
Leafhopper spp.			
Armyworm spp.*	25.6	0.2	
Cutworm spp.			
Leafrollers			
Looper spp.			
Root weevil			
Two spotted spider mite			
Restrictions: Preharvest Interv	al (PHI): 28 Days		
Minimum interval between applications: 21 Days			
Maximum amount of Swagger allowed per season: 76.8 ounces (0.6 pound active ingredient per acceler the			
Maximum amount of Bifenthrin allowed per season: 0.30 pound active ingredient per acre.			
Maximum amount of Imidacion	ason: 0.30 nound active ingredient per acre		

Maximum amount of Imidacloprid allowed per season: 0.30 pound active ingredient per acre. **REMARKS:** For Root weevil control: Make a direct spray to the base of the plant. Spray up to 3.0 feet on the vine and 15 to 2.0 feet on sides of the plant. Thorough coverage is essential to achieve control.

*Including all armyworm pests except Beet armyworm.

SWAGGER™ EPA REG. NO. 34704-1045

(

12/23

SPINACH (PHI 40 DAYS)

(

Pest	Use R	lates
	FI Ozs/A	Lbs Al/A
Aphid spp.	7.6 to 12.2	0.06 to 0.095
Leafhopper spp.		
Lygus spp.		
Stink bug spp.		
Thrips		
Armyworm	10.2 to 12.2	0.08 to 0.095
Cabbageworm		
Colorado potato beetle		
Corn earworm		
Cucumber beetle		
Cutworm spp.		
Diamondback moth		
European corn borer		
Flea beetle		
Leafminer		
Loopers		
Pepper weevil		
Tomato hornworm		
Tomato pinworm		
Tobacco budworm		
Saltmarsh caterpillar		

Restrictions: Preharvest Interval (PHI): 40 days.

Minimum interval between applications: 7 days.

Maximum amount of Swagger allowed per season: 61.44 ounces (0.48 pound active ingredient per acre).

Maximum amount of Bifenthrin allowed per season: 0.40 pound active ingredient per acre.

Maximum amount of Imidacloprid allowed per season: 0.24 pound active ingredient per acre.

REMARKS: Apply in water as necessary for insect control using a minimum of 10.0 gallons of finished spray per acre with ground equipment and 2.0 gallons per acre by air. When applying by air, 1.0 to 2.0 quarts of emulsified oil may be substituted for 1.0 to 2.0 guarts of water in the finished spray. Thorough coverage is essential to achieve control.

STRAWBERRY (PHI 7 days)

Pest	Use R	ates	
	FI Ozs/A	Lbs Al/A	
Aphid spp.	10.2 to 12.28	0.08 to 0.096	
Armyworm spp.*			
Corn earworm			
Flea beetle spp.			(L
Leafhopper spp.			C CC
Lygus spp.			¢
Spittlebug			(L L (L
Whitefly		t. C.	ι ιί
Restrictions: Preharvest Interval (F		c (
Vinimum interval between applicat		(((((((((((((((((((ιιί
		35.84 ounces (0.28 pound active ingredient per acre) (ţ
		: 0.14 pound active ingredient per acre.	
		on: 0.14 pound active ingredient per acre.	ι.
Do not apply during or within 10 d	ays after bloom o	or when bees are actively foraging.	
REMARKS: Apply in a minimum of	5.0 gallons of fir	nished spray per acre by air or in a minimum of 50.0 gall	ons pèr acrè with
ground equipment. Aerial application	ons in Florida are	e prohibited. Thorough coverage is essential to achieve c	ontrol.
*Including all armyworm pests exc	ept Beet armywo	<u>orm.</u>	·

OKRA (PHI 7 DAYS)

Pest	Use F	lates
	FI Ozs/A	Lbs AI/A
Aphid spp.	7.6 to 19.6	0.06 to 0.15
Lygus spp.		
Stink bug spp.		
Thrips		
Armyworm	10.2 to 19.6	0.08 to 0.15
Corn earworm		
Cucumber beetle		
Cutworms		
European corn borer		
Flea beetles		
Leafminer		
Loopers		
Japanese beetle (adult)		
Whitefly		

Restrictions: Preharvest Interval (PHI): 7 days.

Minimum interval between applications: 7 days.

Maximum amount of Swagger allowed per season: 51.2 ounces (0.4 pound active ingredient per acre).

Maximum amount of Imidacloprid allowed per season: 0.24 pound active ingredient per acre.

Maximum amount of Bifenthrin allowed per season: 0.20 pound active ingredient per acre.

REMARKS: Apply using sufficient water to obtain uniform coverage. Apply as needed. Apply in a minimum of 2.0 gallons of finished spray per acre by air or in a minimum of 10.0 gallons per acre with ground equipment.

PEARS (PHI 14 DAYS)

Pest	Use R	ates	
	FI Ozs/A	Lbs AI/A	
Aphid spp.	7.6 to 25.6	0.06 to 0.2	
Leafhopper spp.			
Lygus spp.			
Stink bug spp.			
Codling moth	10.2 to 25.6	0.08 to 0.2	
Cutworm spp.			
Green fruitworm			
Leafminer			
Leafroller			
Plum curculio			

Restrictions: Preharvest Interval (PHI): 14 days. Minimum interval between applications: 30 days.

Maximum amount of Swagger allowed per season: 128.0 ounces (1.0 pound active ingredient per acre) as a foliar application; 115.0 ounces (0.9 pound active ingredient per acre) applied after petal fall.

Maximum amount of Bifenthrin allowed per season: 0.5 pound active ingredient per acre as a foliar application, 0.45 pound active ingredient per acre applied after petal fall.

Maximum amount of Imidacloprid allowed per season: 0.5 pound active ingredient per acre as a foliar application: 0.45 pound active ingredient per acre applied after petal fall.

REMARKS: Application by ground. Apply as a dilute (minimum of 10.0 gallons of finished spray per acre).

Application by air. Apply the specified dosage in a minimum of 2.0 gallons of finished spray per acre by air. Do not graze livestock in treated orchards or cut treated cover crops for feed.

.

POTATO (PHI 21 days) (Foliar uses)

Pest	Use R	lates
	FI Ozs/A	Lbs AI/A
	Foliar	Application
Aphid spp. Leafhopper spp.	7.6 to 12.28	0.06 to 0.1
Banded cucumber beetle Colorado potato beetle Cucumber beetle European corn borer Grasshopper spp. Looper spp. Flea beetle spp. June beetle Potato psyllid Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Tuberworm Whitefringed beetle Whitefly	9.6 to 12.28	0.075 to 0.1

Restrictions: Preharvest Interval (PHI): 21 Days

Minimum interval between applications: 7 Days

Maximum amount of Swagger allowed per season: 51.2 ounces (0.4 pound active ingredient per acre)

Maximum amount of Bifenthrin allowed per season: 0.20 pound active ingredient per acre.

Maximum amount of Imidacloprid allowed per season: 0.20 pound active ingredient per acre.

Maximum amount of Swagger/Foliar Application:

12.28 fluid ounces per acre (0.05 pound active ingredient per acre of Bifenthrin and 0.05 pound active ingredient per acre of Imidacloprid)

Maximum amount of Swagger/Season:

51.2 fluid ounces per acre (0.20 pound active ingredient per acre of Bifenthrin and 0.20 pound active ingredient per acre of Imidacloprid). Two applications are permitted per season. It is permitted to make one at-plant application followed by a foliar application later in the same growing season.

REMARKS: Foliar Application: Apply in a minimum of 5.0 gallons per acre with ground equipment or 1.0 gallon per acre by aircraft. When applying by air, 1.0 quart of emulsified oil may be substituted for 1.0 quart of water in the finished spray. Thorough coverage is essential to achieve control.

POTATO (At-plant)

Pest	Use Rates			
	FI Ozs/A	Lbs AI/A		
	At-Plant Application		eccece e ce	
Aphid spp. Colorado potato beetle Flea beetle spp. (adult, larvae) Japanese beetle (larvae) Leafhopper spp. Potato psyllid Rootworm spp. White grub Wireworm	32.0 to 51.2	0.25 to 0.4		

Restrictions: Preharvest Interval (PHI): 21 Days

Minimum interval between applications: 7 Days

Maximum amount of Swagger allowed per season: 51.2 ounces (0.4 pound active ingredient per acre)

Maximum amount of Bifenthrin allowed per season: 0.20 pound active ingredient per acre.

Maximum amount of Imidacloprid allowed per season: 0.20 pound active ingredient per acre.

A maximum of one at-plant application is permitted per season.

REMARKS

At-plant Application: In-furrow applications: Apply Swagger as an in-furrow spray onto the seed pieces or seed potatoes.

TUBEROUS AND CORM VEGETABLES (PHI 21 DAYS): Arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; canna, edible; cassava, bitter and sweet; chayote (root); chufa; dasheen (taro); Ginger; Leren; Tanier; Turmeric; Bean, Yam, True yam.

Pest	Use Rates	
	FI Ozs/A	Lbs AI/A
Aphid spp.	7.6 to 15.4	0.06 to 0.12
Leafhopper spp.		
Banded cucumber beetle	10.2 to 15.4	0.08 to 0.12
Black flea beetle		
Colorado potato beetle		,
Cucumber beetle		
Flea beetles		
June beetle		
Potato psyllid		
Sugarcane beetle		
Sweetpotato flea beetle		
Sweetpotato weevil		
Whitefringed beetle		

Restrictions: Preharvest Interval (PHI): 21 days.

Minimum interval between applications: 7 days.

Maximum amount of Swagger allowed per season: 33.28 ounces (0.26 pound active ingredient per acre).

Maximum amount of Bifenthrin allowed per season: 0.5 pound active ingredient per acre.

Maximum amount of Imidacloprid allowed per season: 0.13 pound active ingredient per acre.

Apply a maximum of 2 applications per season.

Do not make more than 10 synthetic pyrethroid applications (of one product or combination of products) to a potato crop in one growing season.

REMARKS: Application in Water: Apply in a minimum of 10.0 gallons per acre with ground equipment or 2.0 gallons per acre by aircraft. When applying by air, 1.0 guart of emulsified oil may be substituted for 1.0 guart of water in the finished spray.

TREE NUTS - PHI 7 DAYS (Pecan PHI 21 days)

Pest	Use F	lates	
	FI Ozs/A	Lbs Al/A	
Aphids (Except Black	11.2 to 22.4	0.0875 to 0.175	
pecan aphid)			
Leafhoppers/Sharpshooters			
Phylloxera spp.			
(leaf infestations)			
Spittlebugs			
Thrips			
Black pecan aphid	12.8	0.10	
Mealybugs ·			
San Jose scale			с с с с с с с с с с с с с с с с с с с
Restrictions: Preharvest Interval	l (PHI): 7 days.	e c	ι ι ι
Minimum interval between appli		6666	ου ς ζ ο ζ ο ζ ζ ο ζ ο ζ
Maximum amount of Swagger a	llowed per season:	92.6 ounces (0.72 pound active ingredient per acre).	ί ιιί C
		son: 0.36 pound active ingredient per acre.	(
Maximum amount of Bifenthrin a	allowed per season	: 0.50 pound active ingredient per acre.	ί (ξ. (
REMARKS: Minimum application	n volume (water): 5	50.0 GPA – ground application, 10.0 GPA – aerial application, 10.0 GPA	cation.
		to bloom or when bees are actively foraging.	ι ι ι ι ί, ι ι ι
		e timed according to crawler stage, treating each succ	essive deneration.

(

18/23

DRIED BEANS AND PEAS (PHI 14 DAYS for dried shelled peas or beans)

ſ

Include: Dried cultivars of bean (*Lupinus* spp.) (*Phaseolus* spp.); and any one (includes grain lupin, sweet lupin, dried cultivar of pea (Pisum white lupin and white sweet lupin); (*Phaseolus* spp.) (includes field bean, kidney bean, lima bean(dry), navy bean, pinto bean, tepary bean; bean (*Vigna* spp.) (includes adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean); broad bean (dry); chickpea; guar; lablab bean; lentil; pea (*Pisum* spp.) (includes field pea); pigeon pea.

Pest	Use I	Rates
	FI Ozs/A	Lbs AI/A
Aphid spp.	7.6 to 11.2	0.06 to 0.0875
Grasshopper		
Leafhopper spp.		
Lygus spp.		
Thrips (adult) (foliage feeding)		
Alfalfa caterpillar	11.2	0.0875
Armyworm spp.*		
Bean leaf beetle		
Cloverworm		
Corn earworm		
Corn rootworm (adult)		
Cucumber beetle		
Cutworm spp.		
European corn borer		
Flee beetle spp.		
Japanese beetle (adult)		
June beetle (adult)		
Kudzu bug		
Looper spp.		
Mexican bean beetle		
Pea leaf weevil		
Pea weevil		
Sap beetle (adult)		
Saltmarsh caterpillar		
Silverspotted skipper		
Southern armyworm		
Threecornered alfalfa hopper		
Webworm		
Whitefly		
Restrictions: Preharvest Interval	(PHI): 14 Davs	
Minimum interval between applic		
		: 33.6 ounces (0.26 pound active ingredient per acre)
		: 33.6 ounces (0.26 pound active ingredient per acre) <u>constant</u> n: 0.13 pound active ingredient per acre.
		son: 0.13 pound active ingredient per acre.
		nished spray per acre by air or in a minimum of 10.0 gallons per, acre with ground
aquinment When applying by air	1 0 to 2 0 quarts	s of emulsified oil may be substituted for 1.0 to 2.9 quarts of water in the finished
spray. Thorough coverage is esse		
*Including all armyworm pests ex		
_ more and an anny worm posts c.	NOUPL DOOL ANNYW	
		(((((((((

SUCCULENT BEANS AND PEAS (PHI 7 DAYS): Crops in the Succulent Pea and Bean group, Pea (*Pisum* spp.): Dwarf pea, Edible-pod pea, English pea, Garden pea, Green pea, Snow pea, Sugar snap pea, Pigeon pea; Bean (*Phaseolus* spp.): Broadbean (succulent), Lima bean (green), Runner bean, Snap bean, Wax bean; Bean (*Vigna* spp.): Asparagus bean, Blackeyed pea, Chinese longbean, Cowpea, Moth bean, Southern pea, Yardlong bean, Jackbean, Soybean (immature seed), Sword bean

FI Ozs/AAphid spp.7.6 to 11.0Grasshopper7.6 to 11.0Leafhopper spp.10.2 to 11.0Lygus spp.10.2 to 11.0Bean leaf beetleBeet armyworm	
Grasshopper Leafhopper spp. Lygus spp. <u>Thrips</u> Alfalfa caterpillar Bean leaf beetle Beet armyworm	
Leafhopper spp. Lygus spp. Thrips Alfalfa caterpillar Bean leaf beetle Beet armyworm	0.08 to 0.086
Lygus spp.ThripsAlfalfa caterpillarBean leaf beetleBeet armyworm	0.08 to 0.086
ThripsAlfalfa caterpillar10.2 to 11.0Bean leaf beetleBeet armyworm	0.08 to 0.086
Alfalfa caterpillar 10.2 to 11.0 Bean leaf beetle Beet armyworm	0.08 to 0.086
Bean leaf beetle Beet armyworm	0.08 to 0.086
Beet armyworm	
Cloverworm	
Corn earworm	
Corn rootworm (adult)	
Cucumber beetle	
Cutworm spp.	ø
European corn borer	
Fall armyworm	
Flea beetle	
Japanese beetle (adult)	
Kudzu bug	
Looper spp.	
Pea leaf weevil	
Pea weevil	
Sap beetle (adult)	
Southern armyworm	
Webworm	
Whitefly	
Yellowstriped armyworm Restrictions: Preharvest Interval (PHI): 7 days.	

Restrictions: Preharvest Interval (PHI): 7 days. Minimum interval between applications: 7 days.

Maximum amount of Swagger allowed per season: 33.2 ounces (0.26 pound active ingredient per acre).

Maximum amount of Bifenthrin allowed per season: 0.20 pound active ingredient per acre.

Maximum amount of Imidacloprid allowed per season: 0.13 pound active ingredient per acre.

REMARKS: Application in Water: Apply in a minimum of 5.0 gallons per acre with ground equipment or 1.0 gallon per acre by aircraft. When applying by air, 1.0 guart of emulsified oil may be substituted for 1.0 guart of water in the finished spray.

((C C C C C C C C C C C C C C C C C C	

20/23

SOYBEANS (PHI 18 DAYS)

(

Pest	Use F	Pales	
1 631	FI Ozs/A	Lbs AI/A	
Alfalfa caterpillar	7.6 to 12.2	0.06 to 0.095	
Aphids	1.0 10 12.2	0.0010 0.000	
Aster leafhopper			
Bean leaf beetle			
Beet armyworm*			
Cloverworm			
Corn earworm			
Corn rootworm adult			
Cucumber beetles			
Cutworms			
European corn borer			
Fall armyworm			
Flea beetle			
Grasshoppers			
Imported cabbageworm			
Japanese beetle adult			
Kudzu bug			
Leafhoppers			
Leafminer			
Loopers			
Lygus spp.			
Mexican bean beetle (adult)			
Pea leaf weevil			
Pea weevil			
Plant bug			
Saltmarsh caterpillar			
Sap beetle			
Southern armyworm			
Stink bugs			
Tarnished plant bug			
Thrips			
Tobacco budworm*			
Twospotted spider mite			
Webworms			
Western bean cutworm			
Whitefly			
Yellowstriped armyworm			(((
Restrictions: Preharvest Interval	(PHI): 18 days.	(((((·····;·····;··························
*Use not permitted in California	(· , · ·)· · · · · · · · · · · · · · · ·		L
Apply a maximum of 2 application		ι ((ι ι
Minimum interval between applica		ιςίς (ι ς (
Maximum amount of Swagger all	owed ner season.	24.4 ounces (0.19 pound active ingredient per acrè).	C ()
		a: 0.14 pound active ingredient per acre.	
		son: 0.3 pound active ingredient per acre.	(
maximum amount of mildaolopine		the pound course management por doile.	((
			ι (ι ί ί ι ί ί

TOBACCO (PHI 14 DAYS)

Pest	Use R	lates
_	FI Ozs/A	Lbs AI/A
Lygus spp. Aphid spp. Stínk bug spp. Th <u>rips</u>	7.6 to 12.8	0.06 to 0.10
Armyworm spp. Chinch bugs Cutworm spp. Flea beetle (Adults) Grasshoppers Japanese beetles Stalkborers Whiteflies	10.2 to 12.8	0.08 to 0.10

Restrictions: Preharvest Interval (PHI): 14 days.

Minimum interval between applications: 7 days.

Maximum amount of Swagger allowed per season: 51.2 ounces (0.4 pound active ingredient per acre).

Maximum amount of Bifenthrin allowed per season: 0.30 pound active ingredient per acre.

Maximum amount of Imidacloprid allowed per season: 0.28 pound active ingredient per acre.

Apply a maximum of 2 applications per season.

Do not apply later than layby.

REMARKS: Application in Water: Apply in a minimum of 10.0 gallons per acre with ground equipment or 5.0 gallons per acre by aircraft. When applying by air, 1.0 quart of emulsified oil may be substituted for 1.0 quart of water in the finished spray.

TOMATO (PHI 1 DAY)

Pest	Use R	Use Rates		· · · · · · · · · · · · · · · · · · ·
	FI Ozs/A	Lbs AI/A		
Aphid spp. Flea hopper Leafhopper spp. Lygus spp. Squash bug Stink bug spp. Thrips	7.6 to 19.7	0.06 to 0.15		
Armyworm spp. Bean leaf beetle Cabbageworm Cloverworm Colorado potato beetle Corn earworm Corn rootworm Cucumber beetle Cutworms Diamondback moth European corn borer Flea beetle Grasshopper Japanese beetle (adult) Loopers Melonworm Pea leaf weevil Pepper weevil Pepper weevil Pickleworm Rindworm Saltmarsh caterpillar Sap beetle <u>Seedpod weevil</u>	10.2 to 19.7	0.08 to 0.15	(? G & E, C (C L (C L)))))))))))))))))))))))))))))))))))	<pre> ¿ ((() () () () () () () () (</pre>

Tomato cont'd.:

Restrictions: Preharvest Interval (PHI): 1 day.

Minimum interval between applications: 10 days.

Maximum amount of Swagger allowed per season: 61.44 ounces (0.48 pound active ingredient per acre).

Maximum amount of Bifenthrin allowed per season: 0.40 pound active ingredient per acre.

Maximum amount of Imidacloprid allowed per season: 0.24 pound active ingredient per acre.

REMARKS:

Application in Water: Apply in a minimum of 10.0 gallons per acre with ground equipment or 2.0 gallons per acre by aircraft. When applying by air, 1.0 guart of emulsified oil may be substituted for 1.0 guart of water in the finished spray.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away.

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

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrecycle.org. If not recycled, then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

For packages up to 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For packages greater than 5 gallons and less than 56 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 FSE for at east 30 seconds. Drain for 10 seconds after the flow begins to drip.

Drain for 10 seconds after the flow begins to drip. For packages greater than 56 gallons: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agilyte vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

For refillable containers: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiler. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC - 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CON-SISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WAR-RANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL AND TO THE EXTENT REQUIRED BY APPLICABLE LAW, BUYER OR USER MUST SEND WRITTEN NOTICE OF ITS CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, P.O. BOX 1286, GREELEY, CO 80632-1286.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PUR-CHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CON-SEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

Swagger and Vader are registered trademarks of Loveland Products, Inc.