

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

January 5, 2023

Loveland Products, Inc. c/o Arianna Shorey Pyxis Regulatory Consulting Inc. 4110 136<sup>th</sup> St. Ct. NW Gig Harbor, WA 98332

Subject: PRIA Label and CSF Amendment – Update glove language, revise basic CSF and add alternate CSFs Product Name: LPI.A038 EPA Registration Number: 34704-1188 Application Dates: October 21, 2021, January 3, 2023 Decision Numbers: 579232, 589445

Dear Arianna Shorey:

The amended label and Confidential Statement(s) of Formula (CSFs) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, are acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Please note that the record for this product currently contains the following CSF(s):

- Basic CSF dated 8/10/2022
- Alternate CSF 1 dated 8/10/2022
- Alternate CSF 2 dated 8/10/2022
- Alternate CSF 3 dated 8/10/2022
- Alternate CSF 4 dated 8/10/2022
- Alternate CSF 5 dated 8/10/2022
- Alternate CSF 6 dated 8/10/2022

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Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Elizabeth Andrews at 202-566-2467 or at Andrews.Elizabeth@epa.gov.

Sincerely,

Jel Herrick

Jacquelyn Herrick, Product Manager 03 Invertebrate & Vertebrate Branch 1 Registration Division (7505T) Office of Pesticide Programs

Enclosure

{Note to reviewer: [Text] in brackets denotes optional text. {Text} in braces denotes where in the final label text will appear and notes to reviewer.}

# **{BOOKLET FRONT PANEL LANGUAGE}**

BIFENTHRIN GROUP 3A INSECTICIDE

# **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 the uses covered by the certified applicator's certification.

# LPI.A038<sup>[™]</sup>

Contains bifenthrin, the active ingredient used in Capture<sup>®</sup> LFR.

# For mixing directly with liquid fertilizer to control listed soil insect pests.

ACTIVE INGREDIENT:	(% by weight)
Bifenthrin*	17.15%
OTHER INGREDIENTS:	<u>82.85%</u>
TOTAL	

\*Cis isomers 97% minimum, trans isomers 3% maximum. This product contains 1.5 pounds active ingredient per gallon.

# KEEP OUT OF REACH OF CHILDREN WARNING/AVISO

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 la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See inside label booklet for Precautionary Statements and Directions for Use.

	FIRST AID
If swallowed:	Call a poison control center or doctor immediately for treatment advice.
	Have person sip a glass of water if able to swallow.
	• Do not induce vomiting unless told to do so by the poison control center or doctor.
	• Do not give anything by mouth to an unconscious person.
If in eyes:	• Hold eye open and rinse slowly and gently with water for 15-20 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.
	HOT LINE NUMBER
Have the prod	uct container or label with you when calling a poison control center or doctor, or going for treatment. You
may also conta information.	ct Rocky Mountain Poison and Drug Safety at <b>1-866-944-8565</b> for emergency medical treatment
NOTE TO PHYS	<b>ICIAN</b> - This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines
	uated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption
and so should	oe avoided.

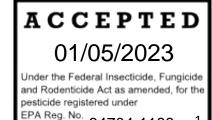
# For Chemical Emergency: Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

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{Note to Reviewer: Below statement will appear in close proximity to above claim statement.} [LPI.A038] is not manufactured, or distributed by [FMC Corporation], seller of [Capture® LFR].

EPA Reg. No.: 34704-1188 EPA Est. No.: Net Weight: [EPA APPROVAL DATE]



34704-1188

MANUFACTURED FOR: LOVELAND PRODUCTS, INC. P.O. BOX 1286 GREELEY, COLORADO 80632-1286 USA

# {LANGUAGE INSIDE BOOKLET}

# **PRECAUTIONARY STATEMENTS**

# HAZARDS TO HUMANS AND DOMESTIC ANIMALS

# WARNING

May be fatal if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### PERSONAL PROTECTIVE EQUIPMENT:

Applicators and other handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants
- chemical resistant gloves made of: barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), neoprene rubber (≥ 14 mils), polyvinyl chloride (PVC) (≥ 14 mils), or viton (≥ 14 mils)
- Shoes plus socks

Mixers and Loaders must wear:

- Long-sleeved shirt and long pants
- chemical resistant gloves made of: barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), neoprene rubber (≥ 14 mils), polyvinyl chloride (PVC) (≥ 14 mils), or viton (≥ 14 mils)
- Shoes plus socks
- Protective eyewear

Mixers and loaders supporting aerial applications to cotton must wear at a minimum:

- long-sleeved shirt and long pants,
- chemical-resistant gloves made of: barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), neoprene rubber (≥ 14 mils), polyvinyl chloride (PVC) (≥ 14 mils), or viton (≥ 14 mils)
- shoes plus socks

Mixers, loaders, and applicators using mechanically pressurized handguns for applications to tuberous and corm vegetables must wear at a minimum:

- long-sleeved shirt and long pants,
- chemical-resistant gloves made of: barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), neoprene rubber (≥ 14 mils), polyvinyl chloride (PVC) (≥ 14 mils), or viton (≥ 14 mils)
- shoes plus socks

Mixers, loaders, and applicators using mechanically pressurized handguns for applications to tobacco must wear at a minimum:

- long-sleeved shirt and long pants,
- chemical-resistant gloves made of: barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), neoprene rubber (≥ 14 mils), polyvinyl chloride (PVC) (≥ 14 mils), or viton (≥ 14 mils)
- 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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### USER SAFETY RECOMMENDATIONS

#### Users should:

- Remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- 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.

#### **ENVIRONMENTAL HAZARDS**

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 if bees are visiting the treatment area. **Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms.** The use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

#### NON-TARGET ORGANISM ADVISORY STATEMENT

This product is highly toxic to bees and other pollinating insects exposed to direct treatment or to residues in/on blooming crops or weeds. Protect pollinating insects by following label directions intended to minimize drift and reduce pesticide risk to these organisms.

#### PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow coming in contact with oxidizing agent. Hazardous Chemical reaction may occur.

# **DIRECTIONS FOR USE**

### **RESTRICTED USE PESTICIDE**

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

For both indoor and outdoor use.

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.

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.

Mixers and loaders supporting aerial applications to cotton must wear at a minimum:

-long-sleeved shirt and long pants,

- chemical-resistant gloves made of: barrier laminate, butyl rubber ( $\geq$  14 mils), nitrile rubber ( $\geq$  14 mils), neoprene rubber ( $\geq$  14 mils), polyvinyl chloride (PVC) ( $\geq$  14 mils), or viton ( $\geq$  14 mils)

- shoes plus socks

Mixers, loaders, and applicators using mechanically pressurized handguns for applications to tuberous and corm vegetables must wear at a minimum:

-long-sleeved shirt and long pants,

- chemical-resistant gloves made of: barrier laminate, butyl rubber ( $\geq$  14 mils), nitrile rubber ( $\geq$  14 mils), neoprene rubber ( $\geq$  14 mils), polyvinyl chloride (PVC) ( $\geq$  14 mils), or viton ( $\geq$  14 mils)

- shoes plus socks

Mixers, loaders, and applicators using mechanically pressurized handguns for applications to tobacco must wear at a minimum:

-long-sleeved shirt and long pants,

- chemical-resistant gloves made of: barrier laminate, butyl rubber ( $\geq$  14 mils), nitrile rubber ( $\geq$  14 mils), neoprene rubber ( $\geq$  14 mils), polyvinyl chloride (PVC) ( $\geq$  14 mils), or viton ( $\geq$  14 mils)

- shoes plus socks

# NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants intended for aesthetic purposes or climatic modifications and being grown in interior plantscapes and on outdoor ornamentals, Christmas trees, nurseries, lawns, and golf courses.

Entry Restrictions for Non-WPS Uses: When applied to on-farm non-cropland, keep unprotected persons out of treated areas until sprays have dried.

# **RESISTANCE MANAGEMENT**

For resistance management, **LPI.A038** contains a Group 3A insecticide. Any insect population may contain individuals naturally resistant to **LPI.A038** and other Group 3A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide/acaricide resistance, take the following steps:

- Rotate the use of LPI.A038 or other Group 3A insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.

- The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistancemanagement and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Loveland Products, Inc. retailer, representative or call 1-888-LPI-CUST [(574-2878)]. You can also contact your pesticide distributor or university extension specialist to report resistance.

# **Mandatory Spray Drift Management**

# Aerial Applications:

- Do not release spray at a height greater than 10 feet above the vegetative canopy unless a greater application height is necessary for pilot safety.
- Applicators are required to select nozzle and pressure that deliver medium or coarser droplets (ASABE S641).
- Do not apply when wind speeds exceed 15 mph at the application site. If the wind speed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- If the windspeed is 10 miles per hour or less, applicators must use ½ swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use ¾ swath displacement upwind at the downwind edge of the field.
- Do not apply during temperature inversions.

# Airblast Applications:

- Sprays must be directed into the canopy.
- Do not apply when wind speeds exceed 15 mph at the application site.
- User must turn off outward pointing nozzles at row ends and when spraying outer row.
- Do not apply during temperature inversions.

# Ground Boom Applications:

- User must only apply with the nozzle height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to select nozzle and pressure that deliver medium or coarser droplets (ASABE S572).
- Do not apply when wind speeds exceed 15 mph at the application site.
- Do not apply during temperature inversions.

# Spray Drift Advisories

# THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS. IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

• Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.

• Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.

• Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### Controlling Droplet Size – Aircraft

• Adjust Nozzles - Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

#### BOOM HEIGHT – Ground Boom

• For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

• Higher release heights increase the potential for spray drift.

#### SHIELDED SPRAYERS

•Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

#### TEMPERATURE AND HUMIDITY

• When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

#### TEMPERATURE INVERSIONS

• Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. 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 air mixing. Avoid applications during temperature inversions.

#### WIND

- Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.
- Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

#### Handheld Technology Applications:

• Take precautions to minimize spray drift.

#### **CHEMIGATION USE DIRECTIONS**

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, drip irrigation, 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 diluents, 1 to 2 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 distributions 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. Apply LPI.A038 continuously for the duration of the water application. Dilute LPI.A038 in sufficient volume to ensure accurate application over the area to be treated. When using chemigation, a minimum of 0.5 inches per acre of irrigation water is recommended. Agitation generally is not required when a suitable diluent is used. Conduct a diluent test 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 then desirable control.

#### **Application and Mixing Instructions**

**LPI.A038** is an insecticide that contains 1.5 pounds of bifenthrin per gallon. **LPI.A038** can be mixed directly with liquid fertilizer or with water. The rate of application is variable according to pest pressure, timing of treatments and field scouting. Use lower labeled rates under light to moderate pest infestations, and higher labeled rates under heaver pest pressure. In arid climates, applications rates are generally higher. Do not exceed the rates listed on the label. Fill the tank one-half full with liquid fertilizer or water and begin spray tank agitation. Add the proper amount of **LPI.A038** and then add the rest of the fertilizer or water. Maintain agitation until the mixture has been applied.

#### SHAKE WELL BEFORE USING

- Agitate the LPI.A038 spray solutions in nurse tanks prior to moving the solution to spray system.
- Cultivation within 25 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) to 300 feet (using aerial equipment) of coastal marshes or streams that drain into coastal marshes.
- LPI.A038 can be applied in-furrow with the seed, as a T-band (band over the open furrow), as a broadcast application, as a band over the row, as a pre-emergent (PRE) application, as a post plant incorporated (PPI) application, as a foliar application (includes chemigation), or as a transplant-water drench during setting.
- Use rates in the individual crop sections for at-plant soil applications are listed as Fluid oz/1000 Linear ft based on 30-inch row spacings. For conversion to application rates applicable to other row spacings see the table below.
- The maximum application rate per acre per season (pounds active ingredient /acre/season) as listed under the use directions for each crop must not be exceeded. This seasonal maximum includes at-plant plus foliar applications of LPI.A038 and other products containing bifenthrin.
- For at-plant applications, **LPI.A038** can be mixed with commonly used liquid starter or pop-up fertilizers. Follow liquid fertilizer recommendations regarding seed safety and use guidelines. Conduct a preliminary jar test using the appropriate ratio of fertilizer and **LPI.A038**. Do not allow a tank mixture to set overnight, but if this occurs agitate tank mixture prior to application.

LPI.A038 Required Per Acre for Various Row Spacings							
Row Spacing	36"	30"	20"	15"	Twin Row 30" centers		
Linear row ft/acre	14,520 ft	17,424 ft	26,136 ft	34,848 ft	34,848 ft		
Conversion							
0.2 Fluid oz/1000 Linear ft =	2.9 fl oz/acre	3.5 fl oz/acre	5.2 fl oz/acre	7.0 fl oz/acre	7.0 fl oz/acre		
0.24 Fluid oz/1000 Linear ft =	3.5 fl oz/acre	4.2 fl oz/acre	6.3 fl oz/acre	8.4 fl oz/acre	8.4 fl oz/acre		
0.3 Fluid oz/1000 Linear ft =	4.4 fl oz/acre	5.2 fl oz/acre	7.8 fl oz/acre	10.5 fl oz/acre	10.5 fl oz/acre		
0.39 Fluid oz/1000 Linear ft =	5.7 fl oz/acre	6.8 fl oz/acre	10.2 fl oz/acre	13.6 fl oz/acre	13.6 fl oz/acre		
0.49 Fluid oz/1000 Linear ft =	7.1 fl oz/acre	8.5 fl oz/acre	12.8 fl oz/acre				
0.73 Fluid oz/1000 Linear ft =	10.6 fl oz/acre	12.7 fl oz/acre		-			
0.78 Fluid oz/1000 Linear ft =	11.3 fl oz/acre	13.6 fl oz/acre					
0.98 Fluid oz/1000 Linear ft =	14.2 fl oz/acre	17.1 fl oz/acre					
1.47 Fluid oz/1000 Linear ft =	21.3 fl oz/acre	25.6 fl oz/acre	]				

#### **Crop Rotation Restrictions**

Crops for which bifenthrin tolerances exist may be rotated at any time. All other crops may be rotated 30 days following the final application of bifenthrin.

#### **Tank Mixtures**

**LPI.A038** 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. To ensure successful applications, conduct product compatibility tests. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

#### Maximum Allowable LPI.A038 Use Per Acre Per Season

Refer to the individual crop sections for maximum allowable **LPI.A038** 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 months period. The 12-month period is to begin upon the initial application to the acre.

# **BUFFER ZONES**

#### **Vegetative Filter Strips**

Construct and maintain a vegetative filter strip, according to the width specified below, of grass or other permanent vegetation between the field edge and nearby down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing bifenthrin onto fields where a maintained vegetative filter strip of at **least 25 feet** exists between the field edge and where a down gradient aquatic habitat exists. This minimum required width of 25 feet may be reduced or removed under the following conditions:

- For Western irrigated agriculture, a maintained vegetative filter strip of at least 10 feet wide is required. Western irrigated agriculture is defined as irrigated farmland in the following states: WA, OR, CA, ID, NV, UT, AZ, MT, WY, CO, NM, and TX (west of I-35).
  - For Western irrigated agriculture, if a sediment control basin is present, a vegetative filter strip is not required.
- In all other areas, a vegetative filter strip with a minimum width of 25 feet is required, unless the following conditions are met. The vegetative filter strip requirement may be reduced from 25 feet to 15 feet if at least one of the following applies:
  - $\circ$  The area of application is considered prime farmland (as defined in 7 CFR § 657.5).
  - Conservation tillage is being implemented on the area of application. Conservation tillage is defined as any system that leaves at least 30% of the soil surface covered by residue after planting. Conservation tillage practices can include mulch-till, no-till, or strip-till.

- A functional terrace system is maintained on the area of application.
- Water and sediment control basins for the area of application are functional and maintained.
- the area of application is less than or equal to 10 acres.

For further guidance on vegetated filter strips, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. https://www.regulations.gov/document?D=EPA-HQ-OPP-2008-0331-0175

**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 Ultra Low Volume (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).

Following best management practices can help reduce risk to terrestrial pollinators. Examples of best management practices include applying pesticides in the evening and at night when pollinators are not foraging and checking to confirm hive locations before spraying. For additional resources on pollinator best management practices, visit https://www.epa.gov/pollinator-protection/find-best-management-practices-protect-pollinators.

**Managed pollinator protection plans** are developed by states/tribes to promote communication between growers, landowners, farmers, beekeepers, pesticide users, and other pest management professionals to reduce exposure of bees to pesticides. If available, visit state plans for additional information on how to protect pollinators.

#### How to Report Bee Kills

It is recommended that users contact both the state lead agency and the U.S. Environmental Protection Agency to report bee kills due to pesticide application. Bee kills can be reported to EPA at beekill@epa.gov. To contact your state lead agency, see the current listing of state pesticide regulatory agencies at the National Pesticide Information Center's website: http://npic.orst.edu/reg/state\_agencies.html.

#### ARTICHOKE

#### At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/A	Fluid oz/1000 Linear ft.	Pound ai/A	
Cribrate Weevil (Grubs)	8.5	0.49	0.1	Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed.

#### PPI & PRE

PEST	US	E RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
Cribrate Weevil	PRE	PRE	LPI.A038 can be tank mixed and applied with PRE
(Grubs)	8.5	0.1	herbicides.
	PPI	PPI	LPI.A038 can be tank mixed and applied with PPI
	8.5	0.1	herbicides. Incorporate LPI.A038 no deeper than
			the intended planting depth and no deeper than 3
			inches. Incorporate close to intended depth.

# Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Artichoke Plume Moth	8.5	0.1	Apply when pest population reaches damaging
Cribrate Weevil			threshold and repeat as necessary to maintain
(Grubs)			control, but not more often than 15-day intervals.
			Application by ground: Apply a full cover spray in a
			minimum of 75 gallons of finished spray per acre.
			Application by air: Apply specified dosage in a
			minimum of 10 gallons of finished spray per acre.

• Do not apply within 5 days of harvest.

#### **Artichoke Restrictions:**

• Do not apply more than 0.5 lb ai/A per season including at-plant, PPI, PRE and foliar applications of LPI.A038 and other bifenthrin containing products.

#### BRASSICAS, Head and Stem (Crop Subgroup 5A)

Broccoli, Chinese Broccoli (gai lon, white flowering broccoli), Brussels Sprouts, Cauliflower, Cavalo broccoli, Kohlrabi, Cabbage, Chinese Cabbage (napa), and Chinese Mustard Cabbage (gai choy)

PEST	USE RATES			DIRECTIONS
	Fluid oz/A	Fluid oz/1000	Pound ai/A	
		Linear ft.		
Army cutworm	3.4 - 6.8	0.2 – 0.39	0.04 - 0.08	Apply as a 5-7 inch band (T-band) over the
Armyworm species				open seed or transplant furrow, or in-
Cabbage maggot				furrow with the seed or transplant.
Cutworm species				
Grubs				Cutworm and armyworm treatments may
Root aphids				be applied as broadcast treatments to the
Root maggot				soil surface.
Seedcorn maggot				
Wireworm				May be applied through transplant water
				at time of transplanting

• Do not apply more than 0.1lb ai/A per season as an at-plant application

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Root Aphids	PRE	PRE	LPI.A038 can be tank mixed and applied with PRE
Root Maggots	3.4 - 6.8	0.04 - 0.08	labeled herbicides and fungicides for pre-
Seed corn maggot			transplant application.
Wireworms	PPI	PPI	Incorporate LPI.A038 no deeper than the intended
Garden Symphylans	3.4 - 6.8	0.04 - 0.08	planting depth and no deeper than 3 inches. Incorporate at depth close to the intended seed
			planting or transplant depth.

PEST	PEST USE RAT		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Aphids Armyworms Cutworms Corn Earworm Crickets Cucumber Beetles Diamondback Moth Flea Beetles Ground Beetles Imported Cabbageworm Leafhoppers Loopers Saltmarsh Caterpillar Stink Bugs (including brown marmorated stink bugs) Thrips Tobacco Budworm Whitefly Wireworm (adults)	2.8 - 8.5	0.033 - 0.1	<ul> <li>Thorough coverage is necessary to attain acceptable control. Make application at the onset of infestation reaching locally determined economic thresholds.</li> <li>Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. When applying by air, 1 - 2 quarts of emulsified oil may be substituted for 1 - 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.</li> </ul>
Black burrowing bug Banks Grass Mite	6.8 - 8.5	0.08 - 0.1	
Carmine Mite Lygus Species Pacific Spider Mite Twospotted Spider Mite	0.0 0.0	0.00 0.1	
Foliar Restrictions: Do not make more Do not make applic Do not apply within	ations less than	n 7 days apart.	·

# Foliar

#### Brassica, Head and Stem (Crop Subgroup 5A) Restrictions:

• Do not apply more than 0.5 lb ai/A per season including At-Plant, PRE, PPI, and Foliar applications of LPI.A038 and other bifenthrin containing products.

### BUSHBERRIES (Crop Subgroup 13-07B)[\*]

Aronia berry; blueberry, highbush; blueberry, lowbush; buffalo currant; Chilean guava; cranberry, highbush; currant, black; currant, red; elderberry; European barberry; gooseberry; honeysuckle, edible; huckleberry; jostaberry; Juneberry (Saskatoon berry); lingonberry; native currant; salal; sea buckthorn; cultivars, varieties, and/or hybrids of these

#### At-Plant

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Wireworm	8.5	0.1	Apply as a (T-band) over an open furrow
White Grubs			immediately prior to transplanting, or in-furrow

with the transplant in sufficient water for planting.
May also be applied as a solid drench with
transplant water at time of transplanting.

# **PPI (Site Preparation) & PRE**

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Wire worm	PRE	PRE	LPI.A038 can be tank mixed and applied with PRE
White Grubs	3.4 – 8.5	0.04 - 0.1	herbicides
Blueberry Maggot	PPI	PPI	LPI.A038 can be tank mixed and applied with PPI
(larvae)	8.5	0.1	herbicides, insecticides and fungicides where
			allowed. Incorporate LPI.A038 no deeper than the
			intended planting depth and no deeper than 3
			inches. Incorporate at depth close to the intended
			planting depth.

#### Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Aphids Blueberry maggot Fruitworms Japanese beetle Leafhoppers Leaf rollers Lecanium scale (crawlers) Obliquebanded leaf roller Plum curculio Red banded leafroller Spanworm Variegated Leafroller Spotted Winged Drosophila	3.4 – 8.5	0.04 - 0.1	Apply in a minimum of 2 gallons finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. Thorough coverage is essential to achieve control. Make application at the onset of infestation reaching locally determined economic thresholds.
Banks Grass Mite Carmine Mite Lygus Species Pacific Spider Mite Twospotted Spider Mite	6.8 – 8.5	0.08 - 0.1	

• Do not apply within 1 day of harvest.

#### **Bushberries (Crop Subgroup 13-07B) Restrictions:**

• Do not apply more than 0.5 lb ai/A per season including at-plant, PRI, PRE and foliar application of LPI.A038 and other bifenthrin containing products.

#### [\*][Not for Use in California]

# CANEBERRIES (Crop Subgroup 13-07A)[\*]

Caneberries including Bingleberries, Blackberries, Dewberries, Loganberries, Lowberries, Marionberries, Olallieberries, Raspberries, and Youngberries.

# At-Plant

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Wireworm	8.5	0.1	Apply as a 5 to 7 inch band (T-band) over an open
White Grubs			furrow in sufficient water for planting, or in-furrow
			with the seed. May be applied through transplant
			water at time of transplanting.

#### PPI & PRE

PEST	USI	E RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
Wireworm	PRE	PRE	
White Grubs	8.5	0.1	
	PPI	PPI	LPI.A038 can be tank mixed and applied with PPI
	8.5	0.1	pesticides labeled for site preparation. Incorporate
			LPI.A038 no deeper than the intended planting
			depth and no deeper than 3 inches. Incorporate at
			depth close to the intended planting depth.

#### Foliar

PEST	USE	RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
Leafrollers Orange Tortrix Root Weevils Spotted Winged Drosophila	4.3 - 8.5	0.05 - 0.1	<ul> <li>Apply by air or ground equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons per acre by air and 50 gallons per a by ground).</li> <li>One application may be made pre-bloom and a second application may be made post-bloom.</li> <li>For Crown Borer, apply 0.1 lb ai/a post harvest (fall) or pre bloom (spring), as a drench application directed at the crown of plants in a minimum of 200 gallons water per acre. Greater efficacy is observed at higher gallons (up to 400 gallons/a) in an application prior to a significant rainfall even Do not make both pre bloom foliar and pre bloom drench applications.</li> </ul>
Raspberry Crown Borer Spider Mites	8.5	0.1	

• One application may be made pre bloom and a second application may be made post bloom.

• Do not apply within 3 days of harvest.

#### Caneberries (Crop Subgroup 07A) Restrictions:

• Do not exceed 0.2 lb ai/A per season including at-plant, PRI, PRE, and foliar applications of LPI.A038 and other bifenthrin containing products.

[\*][Not for Use in California]

# CANOLA, CRAMBE, RAPESEED[\*]

At-Plant

PEST	USE RATES		DIRECTIONS
	Fluid oz/A Pound ai/A		
Army cutworm	6.83	0.08	Apply as a 5 to 7 inch band (T-band) over an open

Armyworm species	furrow, or in-furrow with the seed.
Cutworm species	
Grape colaspis	
Grubs	
Root aphids	
Seed corn beetle	
Seed corn maggot	
Stalkborer	
Sugarcane beetle	
True armyworm	
Wireworm	

# PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Army cutworm	PRE	PRE	LPI.A038 can be tank mixed and applied with PRE
Armyworm species	6.83	0.08	herbicides
Cutworm species	PPI	PPI	LPI.A038 can be tank mixed and applied with PPI
Grape colaspis	6.83	0.08	herbicides. Incorporate LPI.A038 no deeper than
Grubs			the intended planting depth and no deeper than 3
Root aphids			inches. Incorporate at depth close to the intended
Seed corn beetle			seed planting depth.
Seed corn maggot			
Stalkborer			
Sugarcane beetle			
True armyworm			
Wireworm (PPI only)			

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Aphids Armyworms Cutworms Diamondback Moth Loopers Other Lepidopterous Larvae Flea Beetle Flea Hopper Grasshopper Plant Bug Stink Bugs (including brown marmorated stink bugs) Seedpod Weevil Thrips Whitefly	2.8 - 3.4	0.033 - 0.04	Apply in a minimum of 2 gallons finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. When applying by air, 1 - 2 quarts of emulsified oil may be substituted for 1 - 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.
Foliar Restrictions:			•
<ul> <li>Do not make app</li> </ul>	lications less th	an 14 days apart.	
<ul> <li>Do not apply with</li> </ul>	hin 35 day of ha	irvest.	

#### Canola, Crambe, and Rapeseed Restrictions:

• Do not apply more than 0.08 lb ai/A per season including at-plant, PRI, PRE, and foliar applications of LPI.A038 and other bifenthrin containing products.

### [\*][Not for Use in California]

# CILANTRO, CORIANDER

#### At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/A	Fluid oz/1000 Linear ft.	Pound ai/A	
Armyworm species Cutworm species Flea beetle larvae Wireworm	3.4 - 6.8	0.2 – 0.39	0.04 - 0.08	Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band) in-furrow with the seed, or broadcast to the soil surface.

# At-plant Restrictions:

• Do not apply more than 0.1 lb ai/A per season as an at-plant application.

#### PPI & PRE

PEST	EST USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Army cutworm	PRE	PRE	LPI.A038 can be tank mixed and applied with PRE
Armyworm species	3.4 - 6.8	0.04 - 0.08	herbicides
Cutworm species	PPI	PPI	LPI.A038 can be tank mixed and applied with PPI
Grape colaspis	3.4 - 6.8	0.04 - 0.08	herbicides. Incorporate LPI.A038 no deeper than
Grubs			the intended planting depth and no deeper than 3
Root aphids			inches. Incorporate at depth close to the intended
Seed corn beetle			seed planting depth.
Seed corn maggot			
Wireworms (PPI Only)			

PEST	USE	RATES	DIRECTIONS			
	Fluid oz/A	Pound ai/A				
Aphids Beet Armyworm Cabbage Looper Cutworm Flea beetle Grasshoppers Leafminer Saltmarsh caterpillar Spotted Cucumber beetle Thrips Whitefly	2.8 - 8.5	0.033 - 0.1	Apply using sufficient water to obtain uniform coverage. Apply with ground equipment using a minimum of 10 gallons of finished spray per acre or a minimum of 2 gallons per acre by aircraft			
Two Spotted Spider Mite	6.8 – 8.5	0.08 - 0.1				
Foliar Restrictions:						
<ul> <li>Do not make app</li> </ul>	• Do not make applications less than 7 days apart.					
<ul> <li>Do not apply wit</li> </ul>	Do not apply within 3 day of harvest.					

#### **Cilantro and Coriander Restrictions:**

• Do not apply more than 0.5 lb ai/A per season including at-plant, PPI, PRE and foliar applications of **LPI.A038** and other bifenthrin containing products.

#### CITRUS (Crop Group 10-10)

Australian desert lime; Australian finger-lime; Australian round lime; Brown River finger lime; calamondin; citron; citrus hybrids; grapefruit; Japanese summer grapefruit; kumquat; lemon; lime; Mediterranean mandarin; mount white lime; New Guinea wild lime; orange, sour; orange, sweet; pummelo; Russell River lime; satsuma mandarin; sweet lime; tachibana orange; Tahiti lime; tangelo; tangerine (mandarin); tangor; trifoliate orange; uniq fruit; cultivars, varieties, and/or hybrids of these

#### **Use Directions:**

When applied as directed, **LPI.A038** will provide control of the following pests listed in the table below. Apply **LPI.A038** by ground equipment to bare soil beneath citrus trees. **LPI.A038** must be uniformly applied from the trunk to the drip line of tree. Apply in a minimum of 40 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.

**LPI.A038** protects citrus tree roots from Diaprepes and other citrus root weevil feeding by forming a barrier which provides contact activity on newly hatched larvae (neonates). As citrus root weevil eggs hatch in new foliage, neonates fall to the soil surface beneath the tree and come in contact with **LPI.A038** as they attempt to burrow into the root zone. Minimize disturbance of the soil beneath trees.

Timing of **LPI.A038** applications is critical. Current information suggests that peak emergence of adult Diaprepes Weevil varies by citrus growing region and these emergence peaks can be dramatically affected by

environmental factors, such as soil moisture. Typically, two peaks are observed for Diaprepes, first in spring then late summer or early fall. Southern Blue- Green and Blue-Green Citrus Weevils and Fuller Rose Beetle typically exhibit a single emergence peak in the spring. Brown and Little Leaf Notchers typically exhibit three emergence peaks, spring, summer and fall. Since emergence varies seasonally and by location, timing of LPI.A038 application can be accurately forecast by observing adults. Adults are most active early morning and late afternoon; numbers can be estimated by trapping throughout spring and summer (emergence periods). Egg laying will occur for 8 to 10 weeks following adult emergence from the soil; larval invasion of the soil will begin 2 to 3 weeks following adult emergence. It is critical to have the LPI.A038 soil barrier in place prior to drop of the neonates.

**LPI.A038** is one of several effective tools in an integrated pest management program for Citrus Root Weevils. Use application of **LPI.A038** in conjunction with good cultural practices, biological control of larvae and foliar control of adults. Consult local university extension personnel for current information to protect citrus trees from Citrus Root Weevils and other pests.

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, use 42.5 fluid ounces formulated product 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, 21.25 fluid ounces formulated product can be applied early season and 21.25 fluid ounces formulated product can be applied later in the season.

#### BARE SOIL SURFACE UNDER DRIP LINE

Fluid oz/APound ai/AAsian cockroach8.5 - 21.250.1 - 0.25Apply the specified dosage in a minimum of 44Fire ants (Solenopsis species)and an antimum of 44gallons of finished spray per acre.Blue Green Citrus Root Weeviland an antimum of 44and an antimum of 44Brown Leaf Notcher Diaprepes Root Weevil21.25-42.50.25 - 0.5Little Leaf Notcher Southern Blue Green Citrus Root Weeviland antimum of 44Restrictions:and antimum of 44	PEST	PEST USE RATES		DIRECTIONS
Fire ants (Solenopsis species)gallons of finished spray per acre.Blue Green Citrus Root Weevil Brown Leaf Notcher Diaprepes Root Weevil21.25-42.50.25 - 0.5Little Leaf Notcher Southern Blue Green Citrus Root Weevil21.25-42.50.25 - 0.5		Fluid oz/A	Pound ai/A	
species)Image: Species (Species)Blue Green Citrus Root WeevilBrown Leaf NotcherBrown Leaf Notcher Diaprepes Root Weevil21.25-42.5Diaprepes Root Weevil21.25-42.5Little Leaf Notcher Southern Blue Green Citrus Root Weevil		8.5 - 21.25	0.1 - 0.25	Apply the specified dosage in a minimum of 40
WeevilBrown Leaf NotcherDiaprepes Root Weevil21.25-42.5Little Leaf NotcherSouthern Blue GreenCitrus Root Weevil	· ·			galions of finished spray per acre.
Brown Leaf Notcher Diaprepes Root Weevil 21.25- 42.5 0.25 - 0.5 Little Leaf Notcher Southern Blue Green Citrus Root Weevil	Blue Green Citrus Root			
Diaprepes Root Weevil 21.25- 42.5 0.25 - 0.5 Little Leaf Notcher Southern Blue Green Citrus Root Weevil	Weevil			
Little Leaf Notcher Southern Blue Green Citrus Root Weevil	Brown Leaf Notcher			
Southern Blue Green Citrus Root Weevil	Diaprepes Root Weevil	21.25- 42.5	0.25 - 0.5	
Citrus Root Weevil	Little Leaf Notcher			
	Southern Blue Green			
Restrictions:	Citrus Root Weevil			
	Restrictions:			

- Do not allow any application of LPI.A038 to contact fruit or foliage.
- Do not apply more than a total of 42.5 fluid ounces of formulated product (0.5 pound active ingredient) per acre per year.
- Do not apply by air.

#### CORN

Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed, Sweet Corn, Sweet Corn Grown for Seed

#### **Use Directions:**

Heavy Corn Rootworm Pressure Management Program: In areas where large corn rootworm populations are present, a multi-approach system may be needed for optimal pest management. However, if the population level is not known and if a corn rootworm adult scouting program along with threshold adult control measures were not completed during the previous growing season, then utilize a maximum dosage seed treatment program or genetically modified corn rootworm resistant hybrid in addition to **LPI.A038**.

#### At-plant

PEST		USE RATES				
	Fluid oz/A	Fluid oz/1000 Linear ft.	Pound ai/A	DIRECTIONS		
Corn Rootworm larvae (Northern, Southern and Western)	6.8 - 17.0	0.39 - 0.98	0.08 - 0.2	Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed. For Army cutworm, Stalkborer, Cutworm species,		
Army cutworm Armyworm species Cutworm species Grape colaspis Grubs Root aphids Seed corn beetle Seed corn maggot Stalkborer Sugarcane beetle True armyworm Wireworm	3.4 - 13.6	0.2 - 0.78	0.04 - 0.16	True armyworm or Armyworm species, apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), in-furrow with the seed, or broadcast to the soil surface.		
At-Plant Restrictions:						
Do not apply i	more than 0.2	pound active pe	r acre per season	as an at-plant application.		

- For field corn Do not apply more than 0.3 lb ai/A per season including PPI, at-plant, pre-emergence, and foliar applications of other bifenthrin products (such as Brigade 2EC or Batallion 2 EC).
- For sweet corn Do not apply more than 0.2 lb ai/A total per season including PPI, at-plant, pre-emergence, and foliar applications of other bifenthrin products (such as Brigade 2EC or Batallion 2 EC).

#### PPI & PRE

PEST	US	SE RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
Armyworm species	PPI	PPI	LPI.A038 can be tank mixed and
Black Cutworm	4 – 5.3	0.047 – 0.062	applied with PPI herbicides.
Grape colaspis			Incorporate LPI.A038 no deeper than
Seed corn beetle			the intended planting depth and no
Seed corn maggot			deeper than 3 inches. Incorporate
White Grub			close to the intended seed planting
Wireworm			depth.
Armyworm species	PRE	PRE	LPI.A038 can be tank mixed and
Black Cutworm	3.4	0.04	applied with PRE herbicides.
Seed corn beetle			
Stalkborer			

PEST	US	E RATES	
	Fluid oz/A	Pound ai/A	APPLICATION INSTRUCTIONS
Aphids	2.8 - 8.5	0.033-0.1	Apply in a minimum of 2-5 gallons of
Army Cutworm			finished spray per acre by aircraft or in
Beet Armyworm			a minimum of 10 gallons per acre with
Cereal Leaf Beetle			ground equipment. To improve control
Chinch Bug			by aircraft, use 5 gallons of finished
Common Stalk Borer			spray per acre particularly when initial
Corn Earworm <sup>1</sup>			populations are heavier than normal.
Corn Rootworm (Adult)			
Cucumber Beetle (Adults)			When applying by air, 1-2 quarts of
Cutworm Species			emulsified oil may be substituted for 1-
European Corn Borer <sup>2</sup>			2 quarts of water in the finished spray.
Fall Armyworm			
Flea Beetle			Thorough coverage is essential to
Grasshoppers			achieve control.
Greenbug			
Japanese Beetle (Adult)			<sup>1</sup> To Control Ear-Attacking Pests: Apply
Sap Beetle			LPI.A038 just before silking and repeat
Southern Armyworm			as necessary to maintain control.
Southern Corn Leaf Beetle			
Southwestern Corn Borer <sup>2</sup>			<sup>2</sup> Southwestern Corn Borer, European
Stinkbugs (including brown marmorated			Corn Borer: Make application for corn
stink bugs)			borer control with initial application at
Tarnished Plant Bug			or shortly before egg hatch.
True Armyworm			For Control Of Other Insect Pests:
or			Apply when pests first appear and
Armyworm Species			repeat as necessary.
Webworms			
Western Bean Cutworm			<sup>3</sup> For Control of Mites: Apply for Banks
Yellowstriped Armyworm			Grass Mite control when colonies first

Banks Grass Mite <sup>3</sup> Carmine Mite <sup>3</sup> Twospotted Spider Mite <sup>3</sup>	6.8 - 8.5	0.08 – 0.1	form prior to leaf damage or discoloration and before dispersal above the bottom third of the plant. For <b>Twospotted Spider Mite</b> and <b>Carmine Mite</b> control, apply when colonies first form prior to leaf damage or discoloration and before widespread mite dispersal throughout the canopy. Higher labeled rates will be necessary for heavier initial populations and corn under heat or drought stress. Field
			experience with dimethoate at 0.5 lb. active per acre in tank mixture has demonstrated good control under these conditions.
			For Mite Control In Texas, New Mexico, Oklahoma, and Arizona: Apply in a minimum of 5 gallons of finished spray per acre by aircraft or in a minimum of 10 gallons per acre with ground equipment.

# Foliar Restrictions:

- For field corn
  - Do not apply within 30 days of harvest for field corn (grain and silage), popcorn, field corn grown for seed.
  - Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application for field corn (grain and silage), popcorn, field corn grown for seed.
- For sweet corn
  - Do not apply within 1 day of harvest for sweet corn or sweet corn grown for seed.
  - $\circ~$  Do not graze livestock in treated areas or cut treated crops for feed within 1 day of the last application for sweet corn or sweet corn grown for seed.
- Use of ultra low volume (ULV) application on corn is prohibited.
- Do not make aerial or ground applications to corn if heavy rainfall is imminent.

# **Corn Restrictions:**

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- For field corn
  - Do not apply more than 0.3 lb ai/A total per season including ppi, at-plant, pre-emergence, and foliar applications of **LPI.A038** and other bifenthrin products.
- For sweet corn
  - Do not apply more than 0.2 lb ai/A total per season including ppi, at-plant, pre-emergence, and foliar applications of **LPI.A038** and other bifenthrin products.

# COTTON[\*] At-plant

PEST		USE RATES				
	Fluid oz/A	Fluid oz/1000 Linear ft.	Pound ai/A	DIRECTIONS		
Cutworm spp White Grub Wireworm Grape colaspis Root Maggot Seedcorn Maggot	1.7 - 8.5	0.1 – 0.5	0.02 - 0.1	Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed.		

# PPI & PRE

PEST	USI	E RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
Cutworm species	PRE	PRE	
	3.4 – 8.5	0.04 - 0.1	
Cutworm species	PPI	PPI	LPI.A038 can be tank mixed and
White Grub	3.4 – 8.5	0.04 - 0.1	applied with PPI herbicides.
Wireworm			Incorporate LPI.A038 no deeper than
Grape colaspis			the intended planting depth and no
Root maggot			deeper than 3 inches. Incorporate at
Seedcorn maggot			depth close to the intended seed
			planting depth.

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
European Corn Borer Soybean (Banded) Thrips Tobacco Thrips	1.7 – 8.5	0.02 - 0.1	Apply as needed using sufficient water to obtain uniform coverage. Apply with ground equipment using a minimum of 5 gallons of finished spray per acre or a minimum of 1 gallon per acre by aircraft.
Boll Weevil <sup>1</sup> Bollworm Cabbage Looper Cotton Aphid <sup>2</sup> Cotton Fleahopper Cotton Leafperforator Cutworms Fall Armyworm Plant Bugs Saltmarsh Caterpillar Southern Garden Leafhopper Stink Bugs (including brown marmorated stink bugs) Tobacco Budworm Whitefly Yellow Striped Armyworm	3.4 – 8.5	0.04 - 0.1	<ul> <li>LPI.A038 may be applied in water or refined vegetable oil (soybean/cottonseed).</li> <li>Application in Water: Apply in a minimum of 5 gallons per acre with ground equipment or 1 gallon per acre by aircraft. When applying by air, 1 quart of emulsified oil may be substituted for one quart of water in the finished spray.</li> <li>ULV Application: Apply the labeled rate of LPI.A038 in refined vegetable oil in a minimum of 1 quart of finished spray per acre with aircraft calibrated to give adequate coverage.</li> <li><sup>1</sup>Boll Weevil: Apply LPI.A038 at an interval of 3 to 4 days until pest numbers are reduced to acceptable levels.</li> </ul>

Beet Armyworm Carmine Spider Mite <sup>2</sup> Lygus species Pink Bollworm Twospotted Spider Mite <sup>2</sup>	5.1 - 8.5	0.06 - 0.1	<sup>2</sup> Aphids and Mites: Apply when pests first appear. Repeat as necessary to maintain control. Higher labeled rates will be required once a damaging threshold is established.
Twospotted Spider Mite <sup>2</sup>			threshold is established.

• Do not apply within 14 days of harvest.

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

**Cotton Restrictions:** 

- Do not apply more than 0.5 lb ai/A per season including at-plant, PRE, PPI, and foliar applications of LPI.A038 and other bifenthrin containing products in all states [except in California].
  - [For California do not apply more than 0.3 pounds active per acre per season.]
- Do not make more than 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season. Synthetic pyrethroid products include but are not limited to Ambush®, Ammo®, Asana® XL, Baythroid®, Baythroid XL®, Brigade® or Batallion™ 2 EC, Capture®, Danitol®, Declare ®, Discipline®, Fanfare®, Karate® or Serpent™ 1 EC, and Mustang®.

# [\*][Not for Use in California]

# **CUCURBITS (Crop Group 9)**

Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Gourd, edible *Lagenaria* species (includes hyotan, cucuzza), *Luffa* species (includes hechima, Chinese okra), *Momordica* species (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of Cucumis melo) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin (Cucurbita species), Squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Squash, winter (includes butternut squash, calabaza, hubbard squash (*C. mixta; C. pepo*) includes acorn squash, spaghetti squash), Watermelon (includes hybrids and/or varieties of Citrullus species).

PEST	USE RATES					
	Fluid oz/A	Fluid oz/1000 Linear ft.	Pound ai/A	DIRECTIONS		
Cucumber beetle larvae	6.8 – 8.5	0.39 – 0.49	0.08 - 0.1	Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the		
Army cutworm Armyworm species Cutworm species Flea beetle larvae Grubs True Armyworm Wireworm	3.4 - 6.8	0.2 – 0.39	0.04 – 0.08	<ul> <li>seed. May be applied through transplant water at time of transplanting.</li> <li>To control cucumber beetle larvae, apply as a 5 to 7 inch band over an open furrow (T-band), or in-furrow with the seed.</li> <li>To control wireworm, grubs, and flea beetle larvae, apply as a 5 to 7 inch band over an open furrow (T-band), or in-furrow (T-band), or in-furrow with the seed or transplant To control army cutworm, cutworm species, true armyworm and armyworm species, apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), in-</li> </ul>		

#### At-plant

	furrow with the seed, broadcast to the soil
	surface or banded over the row.

# At Plant Restrictions:

• Do not apply more than 0.1 lb ai/A per season as an at-plant application

# PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Seed Corn Maggot	PRE	PRE	LPI.A038 can be tank mixed and
Wireworms	6.8 - 8.5	0.08 - 0.1	applied with PRE pesticides. Apply
Army cutworm			through drip of drip tape. Apply when
Armyworm species			soil is moist towards the end of the
Cutworm species			irrigation run.
Flea beetle larvae	PPI	PPI	LPI.A038 can be tank mixed and
Grubs	6.8 – 8.5	0.08 - 0.1	applied with PPI labeled pesticides.
True Armyworm			Incorporate LPI.A038 no deeper than
			the tended planting depth. Incorporate
			close to the intended depth.
			Apply through drip or Drip tape.
			Apply when soil is moist towards the
			end of the irrigation run.

PEST	US	E RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
Aphids Armyworms Cabbage Looper Corn Earworm Cucumber beetles Cutworms Grasshopper Leafhoppers Melonworm Pickleworm Plant Bug Rindworm Squash Bugs Squash Vine Borer Stink Bugs (including brown marmorated stink bugs) Tobacco Budworm	3.4 – 8.5	0.04 - 0.1	<ul> <li>Thorough coverage is necessary to attain acceptable control. Make application at the onset of infestation reaching locally determined economic thresholds.</li> <li>Apply in a minimum of 5 gallons of finished spray per acre by air or in a minimum of 20 gallons per acre with ground equipment. When applying by air 1 2 quarts of emulsified oil may be substituted for 1 – 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.</li> </ul>
Carmine Mite Lygus species Mite Twospotted Spider Mite Whitefly	6.8 – 8.5	0.08 - 0.1	
Foliar Restrictions: • Do not make mo	re than two app	lications after bloo	m.
<ul> <li>Do not make app</li> </ul>			
<ul> <li>Do not apply wit</li> </ul>			

#### **Cucurbits (Crop Group 9) Restrictions:**

• Do not apply more than 0.3 lb ai/A per season including At-plant, PRE & PPI, and foliar applications of **LPI.A038** and other bifenthrin containing products.

#### DRIED BEANS AND PEAS (Crop Subgroup 6C)

Dried cultivars of: Bean (Lupinus); Bean (Phaseolus), Field bean, Kidney bean, Lima bean (dry), Navy bean, Pinto bean, Tepary bean; Bean (Vigna), 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 (Piscum), Field pea, Pigeon pea, purple hulled peas

#### At-Plant

PEST	USE RATES			DIRECTIONS			
	Fluid oz/A	Fluid oz/1000	Pound ai/A				
		Linear ft.					
Corn rootworm	6.8 - 8.5	0.39 – 0.49	0.08 - 0.1	Apply as a 5 to 7 inch band over the row on			
larvae				the soil surface, 5 to 7 inch band (T-band)			
Army cutworm	3.4 - 6.8	0.2 - 0.39	0.04 - 0.08	over an open furrow, or in-furrow with the			
Armyworm species				seed. Apply broadcast to the soil surface			
Cutworm species				for control of Army cutworm, Cutworm			
Grape colaspis				species, True armyworm, or Armyworm			
Grubs				species.			
Root maggot							
True armyworm							
Wireworm							
At- Plant Restrictions:	At- Plant Restrictions:						
• Do not apply	more than 0.1 l	b ai/A per season a	is an at-plant ap	oplication.			

#### PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Army cutworm	PRE	PRE	LPI.A038 can be tank mixed and
Armyworm species	6.8 - 8.5	0.08 - 0.1	applied with PRE herbicides. Apply in a
Cutworm species			minimum of 10 gallons per acre.
Grape colaspis	PPI	PPI	LPI.A038 can be tank mixed and
Grubs	6.8 – 8.5	0.08 - 0.1	applied with PPI herbicides.
Root maggot			Incorporate LPI.A038 no deeper than
True armyworm			the intended planting depth and no
Wireworm (PPI only)			deeper than 3 inches. Incorporate at
			depth close to the intended seed
			planting depth. Apply in a minimum of
			10 gallons per acre.

PEST	USE RATES		DIRECTIONS	
	Fluid oz/A	Pound ai/A		
Aster Leafhopper Flea Beetle Grasshoppers Leafhoppers	2.1 - 8.5	0.025 - 0.1	Apply in a minimum of 2 gallons finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. Thorough coverage is essential to achieve control.	

Alfalfa Caterpillar			
Aphids			When applying by air 1-2 quarts of emulsified oil
Bean Leaf Beetle			may be substituted for 1-2 quarts of water in the
Beet Armyworm			finished spray. Thorough coverage is essential to
Cloverworm			achieve control
Corn Earworm			
Corn Rootworm (Adult)			
Cucumber Beetles			
Cutworms			
European Corn Borer			
Fall Armyworm			
Grasshoppers			
Imported cabbageworm			
Japanese beetle (Adult)			
Leafminer			
Loopers			
Mexican Bean Beetle	20.05	0.000 0.4	
Pea Leaf Weevil	2.8 – 8.5	0.033 - 0.1	
Pea Weevil			
Plant Bug			
Saltmarsh caterpillar			
Sap Beetle			
Southern Armyworm			
Stink Bugs (including			
brown marmorated stink			
bugs)			
Tarnished Plant Bug			
Thrips			
Twospotted Spider Mite			
Tobacco budworm			
Webworms			
Western Bean Cutworm			
Whitefly			
Yellowstriped Armyworm			
Banks Grass Mite			
Carmine Mite	6.8 - 8.5	0.08-0.1	
Lygus Species			
Foliar Restrictions:			
	ply within 14 da	vs of harvest	

• Do not make applications less than 7 days apart

# Dried Beans and Peas (Crop Subgroup 6C) Restrictions:

• Do not apply more than 0.2 lb ai/A to peas, or 0.3lb ai/A to beans per season including At-Plant, PRE & PPI, and Foliar applications of **LPI.A038** and other bifenthrin containing products.

# EGGPLANT

# At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/A	Fluid Pound ai/A oz/1000 Linear ft.		
Army cutworm	3.4 - 6.8	0.2 – 0.39	0.04 - 0.08	Apply as a 5 to 7 inch band over the row on

Armyworm species	the soil surface, a 5 to 7 inch band over the
Cutworm species	open furrow (T-band), or in-furrow with
Grubs	the transplant
Root maggot	or seed. Apply broadcast to the soil surface
True armyworm	for control of Army Cutworm, Cutworm
Wireworm	species, True Armyworm or Armyworm
	species.
At-Plant Restrictions:	

• Do not apply more than 0.1 lb ai/A per season as an at-plant application.

# PPI & PRE

PEST	US	SE RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
Army cutworm	PRE	PRE	LPI.A038 can be tank mixed and
Armyworm species	8.5	0.1	applied with PRE pesticides
Cutworm species			Post Plant Soil Applied: Apply through
Grubs			drip or Drip tape. Apply when soil is
Root maggot			moist towards the end of the irrigation
True armyworm			run.
Wireworm	PPI	PPI	LPI.A038 can be tank mixed and
	3.4 – 8.5	0.04 - 0.1	applied with PPI labeled pesticides.
			Incorporate LPI.A038 no deeper than
			the intended planting depth and no
			deeper than 3 inches. Incorporate at
			depth close to the intended depth.
			Post Plant Soil Applied: Apply through
			drip or Drip tape. Apply when soil is
			moist towards the end of the irrigation
			run.

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Armyworms			Thorough coverage is necessary to attain
(Including Beet)			acceptable control. Make application at the onset
Armyworm Fall			of infestation reaching locally determined
Armyworm Southern			economic thresholds.
Cabbage Looper			
Colorado Potato Beetle			Apply in a minimum of 2 gallons of finished spray
Corn Earworm			per acre by air or in a minimum of 10 gallons per
Cucumber Beetle			acre with ground equipment.
Cutworms			
European Corn Borer	2.8 - 8.5	0.033 - 0.1	When applying by air, 1-2 quarts of emulsified oil
Flea Beetle			may be substituted for 1-2 quarts of water in the
Leafminers			finished spray.
Loopers			
Pepper weevil			Thorough coverage is essential to achieve control.
Plant Bug			
Stink Bug (including			
brown marmorated stink			
bugs)			
Thrips			

Tomato Hornworm				
Tomato Pinworm				
Vegetable Leafminer				
Whitefly				
Yellowstriped Armyworm				
Banks Grass Mite				
Broad Mite				
Carmine Mite		0.08 0.1		
Lygus species	6.8 - 8.5	0.08 - 0.1		
Pacific Spider Mite				
Twospotted Spider Mite				
Foliar Restrictions:				
<ul> <li>Do not apply within 7 days of harvest</li> </ul>				
<ul> <li>Do not make applications less than 7 days apart</li> </ul>				

# **Eggplant Restrictions:**

• Do not apply more than 0.2 lb ai/A per season including At-Plant, PRE & PPI, and Foliar applications of LPI.A038 and other bifenthrin containing products.

# GRAPES[\*]

# At-Plant

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Grape Phylloxera (suppression only) White Grubs	8.5	0.1	Apply at time of planting over an open furrow in sufficient water for planting. May be applied through transplant
Wireworms			water at time of transplanting.

# PPI (Site Preparation) & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Grape Phylloxera (suppression only)	PRE	PRE	LPI.A038 can be tank mixed and
Vine Mealybug	8.5	0.1	applied with PRE pesticides.
			Post Plant Soil Applied: Apply through
			drip or Drop Tape. Apply when soil is
			moist towards the end of the
			irrigations run.
	PPI	PPI	LPI.A038 can be tank mixed and
	8.5	0.1	applied with PPI pesticide labeled for
			site preparation Incorporate LPI.A038
			no deeper than the intended planting
			depth and no deeper than 3 inches.
			Incorporate at depth close to the
			intended depth.
			Post Plant Soil Applied: Apply through
			drip or Drop Tape. Apply when soil is
			moist towards the end of the
			irrigations run.

# Foliar

PEST	USE RATES		DIRECTIONS	
	Fluid oz/A	Pound ai/A		
Cutworms Eastern Grape Leafhopper Grape Berry Moth Japanese Beetles (Adults) Lady Beetle ( <i>Scymnus</i> spp.) Variegated Leafhopper Western Grape Leafhopper Grapevine root borer	4.3 – 8.5	0.05 - 0.1	<ul> <li>Thorough coverage is necessary to attain acceptable control. Make application at the onset of infestation reaching locally determined economic thresholds.</li> <li>Apply in a minimum of 10 gallons of finished spray by air or in a minimum of 25 gallons of finished spray with ground equipment.</li> <li>When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the</li> </ul>	
Black Vine Weevil Glassywinged Sharpshooter Twospotted Spider Mite	8.5	0.1	finished spray. When pest pressure is moderate to severe, use higher labeled rate.	
<ul> <li>Foliar Restrictions:</li> <li>Do not apply within 30 days of harvest.</li> </ul>				

# Grape Restrictions:

• Do not apply more than 0.10 lb ai per acre per season including at-plant, PPI, PRE and foliar applications of LPI.A038 and other bifenthrin containing products.

# [\*][Not for Use in California]

#### HEAD LETTUCE

# At-Plant

PEST		USE RATES		DIRECTIONS		
	Fluid oz/A	Fluid oz/1000	Pound ai/A			
		Linear ft.				
Rootworm larvae	6.8 - 8.5	0.39 – 0.49	0.08 - 0.1	Apply as a 5 to 7 inch band over the		
Army cutworm	3.4 – 6.8	0.2 – 0.39	0.04 - 0.08	row on the soil surface, a 5 to 7 inch		
Armyworm species				band over the open furrow (T-band),		
Bulb mites				or in-furrow with the seed.		
Cutworm species				Apply broadcast to the soil surface for		
Grubs				control of Army cutworm, Cutworm		
Lettuce root aphid				species, True armyworm, armyworm		
Root maggot				species, or bulb mites.		
True armyworm						
Wireworm						
At-Plant Restrictions:	At-Plant Restrictions:					
<ul> <li>Do not apply m</li> </ul>	ore than 0.1 l	b ai/A per season	as an at-plant ap	plication.		

PPI

PEST	USE RATES	
	Fluid oz/A	Pound ai/A
Lettuce Root Aphid		
Garden Symphians	6.8 – 8.5	0.08 - 0.1

Fo	liar

PEST	US	E RATES	DIRECTIONS	
	Fluid oz/A	Pound ai/A		
Aphids Armyworms Corn earworm Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Imported Cabbageworm Leafhoppers Loopers Salt Marsh Caterpillar Stink Bug species (including brown marmorated stink bugs) Tobacco Budworm Whitefly	2.8 – 8.5	0.033 – 0.1	<ul> <li>Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment and 5 gallons per acre by air. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray.</li> <li>Thorough coverage is essential to achieve control.</li> </ul>	
Carmine Mite Lygus Species Twospotted Spider Mite	6.8 - 8.5	0.08-0.1		
Foliar Restrictions:				
<ul> <li>Do not make applications less than 7 days apart.</li> </ul>				
Do not apply within 7 days of harvest.				

#### Head Lettuce Restrictions:

• Do not apply more than 0.5 lb ai per acre per season including at-plant, PPI, PRE and foliar applications of LPI.A038 and other bifenthrin containing products.

HOPS[\*]

# At-Plant

PEST			DIRECTIONS
	Fluid oz/A	Pound ai/A	
Grape colaspis	5.1 – 8.5	0.06 - 0.1	Apply in a T-band that ensures coverage of the entire furrow,
Rootworms			immediately prior to planting, or at planting May also be
Sweet potato flea			applied as a soil drench with transplant water at time of
beetle			transplanting.
White grub			
Wireworm			Apply in a minimum of 10 gallons per acre of spray.

Lay-By

PEST			DIRECTIONS
	Fluid oz/A	Pound ai/A	
Grape colaspis Rootworms White grub Wireworms	5.1 - 8.5	0.06 - 0.1	Apply LPI.A038 to the transplant area and incorporate with cultivation equipment set to throw soil towards the hill. Apply in a minimum of 10 gallons per acre of spray.

#### PPI

PEST			DIRECTIONS
	Fluid oz/A	Pound ai/A	
Grape colaspis	PPI	PPI	Apply LPI.A038 to the transplant area and incorporate to
Rootworms White grub	5.1 – 8.5	0.06 - 0.1	planting depth.
Wireworms			Apply in a minimum of 10 gallons per acre of spray.
			May be applied as a broadcast application or an incorporated band application

# **PRE & Post Plant Soil Applied**

PEST			DIRECTIONS
	Fluid oz/A	Pound ai/A	
Grape colaspis	PRE	PRE	Apply through drip or Drip tape. Apply when soil is moist
Rootworms	5.1 – 8.5	0.06 - 0.1	towards the end of the irrigation run.
White grub			
Wireworms			

#### Foliar

PEST	USE	RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
Aphids Armyworms Cutworms Leafrollers Loopers	5.1 - 8.5	0.06 - 0.1	Application by ground: For best results, full coverage is essential. For Early season application apply 100 – 150 gallons of spray per acre. For Late season apply 200 – 250 gallons of spray per acre. For Root Weevil control, make a directed spray to
Root Weevils	4.3 - 8.5	0.05 - 0.1	the base of the plant. Spray up the vine 3 feet and the soil surface 1.5 to 2 feet on either side of the
Twospotted spider mite	8.5	0.1	<ul> <li>plant.</li> <li>Application by air for late season control of twospotted spider mites: Apply no less than 6. (0.1 lb ai) per application in a minimum of 10 ga per acre.</li> </ul>

- Do not exceed 0.1 lb ai per acre per foliar application. •
- Do not make applications less than 21 days apart •
- Do not apply witin 14 days of harvest. •

#### **Hops Restrictions:**

- Do not exceed 0.3 lb ai per acre per season including at-plant, PRE, PPI, Layby and foliar application of • LPI.A038 and other bifenthrin containing products.
- Use of ultra low volume (ULV) application on hops is prohibited.

[\*][Not for Use in California]

# LEAFY BRASSICAS (Crop Subgroup 5 B), TURNIP GREENS

Broccoli Raab, Bok Choy, Collards, Kale, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens, Turnip Greens

# At-Plant

PEST		USE RATES		DIRECTIONS		
	Fluid	Fluid oz/1000	Pound ai/A			
	oz/A	Linear ft.				
Rootworm larvae	6.8 – 8.5	0.39 – 0.49	0.08 - 0.1	Apply as a 5-7 inch band over the row on the		
Army cutworm	3.4 - 6.8	0.2 – 0.39	0.04 - 0.08	soil surface, a 5-7 inch band over the open		
Armyworm spp.				furrow (T-band), or in-furrow with the seed		
Cutworm spp.				or transplant. May be applied through		
Grubs				transplant water at time of transplanting.		
Lettuce root aphid				Apply broadcast over the soil surface for		
Root maggot				control of Army cutworm, Cutworm species,		
True armyworm				True armyworm or armyworm species.		
Wireworm						
At- Plant Restrictions:	At- Plant Restrictions:					
Do not apply more than	0.1 lb ai/A pe	er season as an at-p	lant applicatior	1.		

# PPI & PRE

PEST			DIRECTIONS
	Fluid oz/A	Pound ai/A	
Lettuce root aphid	PRE	PRE	LPI.A038 can be tank mixed and applied with PRE pesticides.
Root Maggots Wireworms	3.4 - 6.8	0.04 - 0.08	Post Plant Soil Applied: Apply through drip or drip tape. Apply when soil is moist towards the end of the irrigation run.
Army cutworm Armyworm species Cutworm species Flea beetle larvae Grubs True Armyworm	PPI 3.4 – 6.8	PPI 0.04 - 0.08	<b>LPI.A038</b> can be tank mixed and applied with PPI labeled pesticides. Incorporate <b>LPI.A038</b> no deeper than the intended planting depth and no deeper than 3 inches. Incorporate at depth close to the intended depth. Post Plant Soil Applied: Apply through drip or drip tape. Apply when soil is moist towards the end of irrigation run.

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Aphids			Thorough coverage is necessary to attain
Armyworms			acceptable control. Make application at the onset
Corn Earworm			of infestation reaching locally determined
Cutworms			economic thresholds.
Crickets			
Cucumber Beetles			Apply in a minimum of 2 gallons of finished spray
Diamondback Moth			per acre by air or in a minimum of 10 gallons per
Flea Beetles			acre with ground equipment. When applying by air,
Grasshoppers			<sup>1</sup> -2 quarts of emulsified oil may be substituted for
Ground Beetles	2.8 – 8.5	0.033 - 0.1	1-2 quarts of water in the finished spray. Thorough
Imported Cabbageworm			coverage is essential to achieve control.
Japanese Beetle (adult)			
Leafhoppers			
Loopers			
Saltmarsh Caterpillar			
Stink Bugs (including brown			
marmorated stink bugs)			
Tobacco Budworm			
Thrips			

Whitefly		
Wireworm (adults)		
Daula Casas Mita		
Banks Grass Mite		
Carmine Mite		
Lygus species	6.8 - 8.5	0.08 - 0.1
Pacific Spider Mite		
Twospotted Spider Mite		
Foliar Restrictions:		
<ul> <li>Do not mal</li> </ul>	ke applications	less than 7 days ap
<ul> <li>Do not app</li> </ul>	ly witin 7 days	of harvest.

# Leafy Brassica (Crop Subgroup 5B) and Turnip Greens Restrictions:

• Do not apply more than 0.4 lb ai/A per season including at-plant, PPI, PRE, and foliar applications of **LPI.A038** and other bifenthrin containing products.

# LEAFY PETIOLE VEGETABLES (Crop Subgroup 4B)[\*]

Celery, Cardoon, Chinese celery, Celtuce, Florence fennel, Rhubarb, Swiss chard

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Lettuce Root Aphid			Apply as a 5 to 7 inch band (T-band) over an open
Garden Symphlans	3.4 - 8.5	0.04 - 0.1	furrow, or in-furrow with the seed. May be applied
Cutworm spp.			through transplant water at time of transplanting.

# PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Army cutworm	PRE	PRE	LPI.A038 can be tank mixed and applied with labeled PRE
Armyworm species	3.4 - 8.5	0.04 - 0.1	pesticides.
Cutworm species	PPI	PPI	LPI.A038 can be tank mixed and applied with PPI labeled
Flea beetle larvae	8.5	0.1	pesticides.
Grubs			
True Armyworm			Incorporate LPI.A038 no deeper than the intended planting
Wireworm			depth and no deeper than 3 inches. Incorporate at depth
True armyworm			close to the intended depth.

PEST	USE	RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
Aphids Armyworms Corn Earworm Crickets Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Ground Beetles Imported	3.4 - 8.5	0.04 - 0.1	Thorough coverage is necessary to attain acceptable control. Make application at the onset of infestation reaching locally determined economic thresholds. Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons of finished spray per acre with ground equipment. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

Cabbageworm		
Leafhoppers		
Loopers		
Saltmarsh Caterpillar		
Stink Bugs (including		
brown marmorated stink		
bugs)		
Thrips		
Tobacco Budworm		
Whitefly		
Wireworm (adults)		
Banks Grass Mite		
Carmine Mite		
Lygus species	6.8 - 8.5	0.08 - 0.1
Pacific Spider Mite		
Twospotted Spider Mite		
Foliar Restrictions:		
<ul> <li>Do not ma</li> </ul>	ake applications	less than 7 days apa
	nly witin 7 days	

• Do not apply witin 7 days of harvest.

# Leafy Petiole Restrictions:

- Do not apply more than 0.5 lb. active ingredient per acre per season including at-plant, PPI, PRE and foliar applications of LPI.A038 and other bifenthrin containing products.
- [\*][Not for Use in California]

# MAYHAW[\*]

# PPI & PRE

PEST	USE	RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
White Grub	PRE	PRE	LPI.A038 can be tank mixed and applied with labeled PRE
Wireworm	8.5	0.1	pesticides.
	PPI	PPI	LPI.A038 can be tank mixed and applied with PPI pesticides
	8.5	0.1	labeled for site preparation Incorporate LPI.A038 no deeper
			than the intended planting depth and no deeper than 3
			inches. Incorporate at depth close to the intended seed
			planting depth.

#### Foliar

PEST	USE	RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
Plum Curculio	6.8 - 8.5	0.08 - 0.1	Apply foliar treatments in at least 28 gallons per acre
Foliar Restrictions:	une mere then ence		·

- Apply no more than once every 7 days.
- Do not apply within 30 days of harvest

#### **Mayhaw Restrictions:**

• Do not apply more than 0.2 lb ai per acre per season including at-plant, PRE, PPI and foliar applications of LPI.A038 and other bifenthrin containing products.

# [\*][Not for Use in California]

# OKRA

# At- Plant

PEST		USE RATES		DIRECTIONS		
	Fluid	Fluid oz/1000	Pound ai/A			
	oz/A	Linear ft.				
Armyworm	3.4 - 6.8	0.2 – 0.39	0.04 - 0.08	Apply as a 5 to 7 inch band over the row on		
Cutworm spp				the soil surface, a 5 to 7 inch band over the		
Flea beetle larvae				open furrow (T-band), in-furrow with the		
Grape colaspis				seed, or broadcast to the soil surface.		
Root maggot						
Wireworm						
White Grub						
At- Plant Restrictions:						
• Do not apply more than 0.1 lb ai/A per season as an at-plant application						

# PPI & PRE

PEST	USE RATES		DIRECTIONS	
	Fluid oz/A	Pound ai/A		
Cutworm spp	PRE	PRE	LPI.A038 can be tank mixed and applied with PPI or PRE	
	3.4 – 8.5	0.04 - 0.1	herbicides Incorporate LPI.A038 no deeper than the	
Cutworm species	PPI	PPI	intended planting depth and no deeper than 3 inches.	
Flea beetle larvae[*]	3.4 – 8.5	0.04 - 0.1	Incorporate at depth close to the intended seed planting	
Wireworm			depth.	
White Grub				
Grape colaspis				
Root maggot				
PPI & PRE Restrictions [*][Not for Use in Cali				

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Aphids			Apply as needed using sufficient water to obtain
Armyworms			uniform coverage.
Corn earworm			
Cucumber Beetles			Apply with ground equipment using a minimum of
Cutworms			10 gallons of finished spray per acre or a minimum
European Corn Borer			of 2 gallons per acre by aircraft.
Flea Beetles			
Japanese Beetle (Adult)	2.8 - 8.5	0.033 - 0.1	
Leafminers			
Loopers			
Stink bugs (including			
brown marmorated stink			
bugs)			
Thrips			
Whitefly			

Broad Mite						
Carmine Mite	6.8 – 8.5	0.08 - 0.1				
Lygus species						
Twospotted Spider Mite						
Foliar Restrictions:						
• Do not make applications less than 7 days apart.						
• Do not apply within 7 days of harvest.						

# **Okra Restrictions:**

• Do not apply more than 0.2 lb ai/A per season including At-Plant, PRE & PPI, and Foliar applications of LPI.A038 and other bifenthrin products.

# PEANUT[\*]

At- Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/A	Fluid oz/1000 Linear ft.	Pound ai/A	
Thrips, Leafhoppers, Aphids, and Wireworms	6.8 - 8.5	0.39 – 0.49	0.08 - 0.1	Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed.

PEST	USE RATES		DIRECTIONS		
	Fluid oz/A	Pound ai/A			
Beet Armyworm Corn Earworm Cutworm species Fall Armyworm Grasshoppers Green Cloverworm Leafhoppers Lesser Cornstalk borer Loopers Rednecked peanut worm Southern Armyworm Southern Armyworm Southern Corn Rootworm Stink Bugs (including brown marmorated stink bugs) Threecornered alfalfa hopper Velvetbean caterpillar Yellowstriped armyworm	2.8 - 8.5	0.033 - 0.1	Apply in a minimum of 10 gallons per acre with ground equipment or 2 gallon per acre by air craft		
Aphids Spider Mites Thrips Whitefly	6.8 - 8.5	0.08 - 0.1			
<ul> <li>Foliar Restrictions:</li> <li>Do not make applications less than 14 days apart</li> <li>Do not apply within 14 days of harvest.</li> <li>Do not feed green immature plants and peanut hay to livestock.</li> </ul>					

#### **Peanut Restrictions:**

• Do not apply more than 0.5 lb ai per acre per season including at-plant, PPI, PRE and foliar applications of **LPI.A038** and other bifenthrin containing products.

### [\*][Not for Use in Califronia]

#### PEARS[\*]

#### Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Aphids Codling Moth Cutworms Green Fruitworm Leafhoppers Leafminers Leafrollers Lygus species Plant Bugs Plum Curculio San Jose Scale (Crawlers) Stink Bugs (including brown marmorated stink bugs) Tarnished Plant Bugs	3.4 – 17.1	0.04 - 0.2	<ul> <li>Application by ground: Apply as a dilute (minimum of 200 gallons of finished spray per acre) or concentrate (minimum of 50 gallons of finished spray per acre) spray in sufficient water to provide thorough coverage.</li> <li>Application by air: Apply the specified dosage in a minimum of 10 gallons per acre by air.</li> </ul>
Twospotted Spider mite Yellow Mite	5.1 – 17.1	0.06 - 0.2	
European Red Mite	6.8 – 17.1	0.08 - 0.2	
Foliar Restrictions: • Do not make applie	cations less thar	30 days apart.	
Apply up to 14 day			

• Do not graze livestock in treated orchards or cut treated cover crops for feed

#### **Pear Restrictions:**

• Do not apply more than 0.5 pound active per acre per season including at-plant, PRE, PPI and foliar applications of **LPI.A038** and other bifenthrin containing products with no more than 0.45 pound active per acre applied after petal fall.

## [\*][Not for Use in California]

#### PEPPERS (BELL and NON-BELL) & PEPINO

PEST	USE RATES			DIRECTIONS
	Fluid oz/A	Fluid oz/1000 Linear ft.	Pound ai/A	
Army Cutworm Armyworm species Cutworm species	3.4 - 6.8	0.2 – 0.39	0.04 - 0.08	Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the
Flea beetle larvae Grubs				transplant or seed. May be applied through transplant
Pepper maggot				water at time of transplanting.

Root aphid Root maggot Stalk borer		Apply broadcast over the soil surface for control of Army cutworm, Cutworm species, True armyworm, Armyworm	
True armyworm Wireworm		species, or Stalk borer	
At Plant Restrictions:			
<ul> <li>Do not apply more than 0.1 lb ai/A per season as an at-plant application</li> </ul>			

#### PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Army cutworm	PRE	PRE	LPI.A038 can be tank mixed and applied with PRE pesticides
Armyworm species	8.5	0.1	Post Plant Soil Applied: Apply through drip or drip tape.
Cutworm species			Apply when soil is moist towards the end of the irrigation
Flea beetle larvae			run.
Grubs			
True Armyworm	PPI	PPI	LPI.A038 can be tank mixed and applied with PPI labeled
Wireworm	3.4 – 8.5	0.04 - 0.1	pesticides.
			Incorporate LPI.A038 no deeper than the intended planting
			depth and no deeper than 3 inches. Incorporate at depth
			close to the intended seed planting depth.
			Post Plant Soil Applied: Apply through drip or drip tape.
			Apply when soil is moist towards the end of the irrigation
			run.

	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Armyworms (Including Beet) Armyworm Fall Armyworm Southern Cabbage Looper Colorado Potato Beetle Corn Earworm Cucumber Beetle Cutworms European Corn Borer Flea Beetle Leafminers Loopers Pepper weevil Plant Bug Stink Bug (including brown marmorated stink bugs) Thrips Tomato Hornworm Tomato Pinworm Vegetable Leafminer Whitefly Yellowstriped Armyworm	2.8 - 8.5	0.033 - 0.1	<ul> <li>Thorough coverage is necessary to attain acceptable control. Make application at the onset of infestation reaching locally determined economic thresholds.</li> <li>Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment.</li> <li>When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.</li> </ul>

Broad Mite						
Carmine Mite						
Lygus species	6.8 – 8.5	0.08 - 0.1				
Pacific Spider Mite[*]						
Twospotted Spider Mite						
Foliar Restrictions:						
• Do not make applications less than 7 days apart.						
• Do not apply within 7 days of harvest.						
[*][Not for Use in California]						

#### Pepper (Bell and Non-Bell) Restrictions:

• Do not apply more than 0.2 lb ai/A per season including at-plant, PPI, PRE and foliar applications of **LPI.A038** and other bifenthrin containing products.

#### ROOT CROPS (Except Sugar Beets and Garden Beets) (Crop Subgroup 1B)[\*]

Burdock Edible, Carrot, Celeriac, Chervil Turnip Rooted, Chicory, Garden Beet, Ginseng, Horseradish, Parsley Turnip Rooted, Parsnip, Radish, Radish Oriental, Rutabaga, Salsify, Salsify Black, Salsify Spanish, Skirret, and Turnip.

At-Plant

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Crown and Root Aphids Flea Beetles			Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed. May be applied through transplant water at time of transplanting.
Cutworms Seedcorn and Root Maggots Wireworms	8.5	0.1	

#### PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Crown and Root	PRE	PRE	LPI.A038 can be tank mixed and applied with PRE pesticides
Aphids	8.5	0.1	
Flea Beetles			LPI.A038 can be tank mixed and applied with PPI labeled
Cutworms	DDI	DDI	herbicides. Incorporate LPI.A038 no deeper than the
Seedcorn and Root	PPI	PPI	intended planting depth and no deeper than 3 inches.
Maggots	8.5	0.1	Incorporate at depth close to the intended seed planting
Wireworms			depth.

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Aphids Beet Armyworm			Thorough coverage is necessary to attain acceptable control. Make application at the onset
Celery Leaf Tier			of infestation reaching locally determined
Corn Earworm Cross Striped	6.8 - 8.5	0.08 - 0.1	economic thresholds.
Cabbageworm			Apply foliar treatments in at least 25 gallons per
Cutworms			acre.
Diamondback Moth			
European Corn Borer			

Fall Armyworm					
Fire Ants					
Flea Beetles					
Green Cloverworm					
Hornworms					
Imported Cabbageworm					
Loopers					
Southern Armyworm					
Spider Mites					
Tobacco Budworm					
Velvetbean Caterpillar					
Whitefly					
Yellowstriped Armyworm					
Foliar Restrictions:					
Do not make applications less than 7 days apart.					
<ul> <li>Do not apply within</li> </ul>	າ 21 days of har	vest.			

#### **Root Crops Restrictions:**

• Do not apply more than 0.5 lb ai per acre per season including at-plant, PRE, PPI and foliar applications of **LPI.A038** and other bifenthrin containing products.

#### [\*][Not for Use in California]

#### GARDEN BEETS[\*]

#### At-Plant

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Crown and Root Aphids Flea Beetles Cutworms	8.5	0.1	Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed. May be applied through transplant water at time of transplanting.
Seedcorn and Root Maggots Wireworms			

#### PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Crown and Root Aphids Flea Beetles	PRE 8.5	PRE 0.1	LPI.A038 can be tank mixed and applied with PRE pesticides
Cutworms Seedcorn and Root Maggots Wireworms	РРІ 8.5	РРІ 0.1	<b>LPI.A038</b> can be tank mixed and applied with PPI labeled herbicides. Incorporate <b>LPI.A038</b> no deeper than the intended planting depth and no deeper than 3 inches. Incorporate at depth close to the intended seed planting depth.

#### Foliar

PEST	USE RATES		DIRECTIONS		
	Fluid oz/A	Pound ai/A			
Garden Beet Pests Only			Thorough coverage is necessary to attain		
Aphids			acceptable control. Make application at the onset		
Fire Ants			of infestation reaching locally determined		
Flea Beetles	6.8 - 8.5	0.08 - 0.1	economic thresholds.		
Lepidopterous Larvae					
Spider Mites			Apply foliar treatments in at least 25 gallons per		
Whitefly			acre.		
Foliar Restrictions:					
• Do not make applications less than 7 days apart.					
• Do not apply within 1 day of harvest.					

#### Garden Beets Restrictions:

• Do not apply more than 0.4 lb ai per acre per season including at-plant, PRE, PPI and foliar applications of **LPI.A038** and other bifenthrin containing products.

#### [\*][Not for use in California] SOYBEANS

#### At-Plant

PEST		USE RATES		DIRECTIONS
	Fluid oz/A	Fluid oz/1000	Pound ai/A	
		Linear ft.		
Rootworm larvae	6.8 - 8.5	0.39 – 0.49	0.08 - 0.1	Apply as a 5 to 7 inch band over the row on
Army cutworm	3.4 - 6.8	0.2 - 0.39	0.04 - 0.08	the soil surface, a 5 to 7 inch band over the
Armyworm species				open furrow (T-band), or in-furrow with the
Cutworm species				seed.
Grape colaspis				
Grubs				Apply broadcast over the soil surface for
Root maggot				control of Army cutworm, Cutworm species,
Seed corn beetle				True armyworm, or Armyworm species.
Seedcorn maggot				
True armyworm				
Wireworm				
Bean Leaf Beetle				
Larvae				
At- Plant Restrictions:				
• Do not apply	more than 0.1	lb ai/A per season a	is an at-plant a	pplication

#### PRE & PPI

PEST L		RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
Armyworm species			LPI.A038 can be tank mixed and applied with PRE
Black Cutworm	PRE	PRE	herbicides.
	3.4	0.04	
Armyworm species Black Cutworm	201		LPI.A038 can be tank mixed and applied with PPI herbicides.
Seedcorn beetle	PPI	PPI	
Stalkborer	4 - 5.3	0.047 - 0.062	Incorporate LPI.A038 no deeper than the intended
Bean Leaf Beetle Larvae			planting depth and no deeper than 3 inches.

Seed corn Maggot	Incorporate at depth close to the intended seed
White Grub	planting depth.
Wireworm	
Seedcorn Maggot	

PEST	USE	RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	DIRECTIONS
Alfalfa Caterpillar	2.8 – 8.5	0.033 - 0.1	Apply in a minimum of 10 gallons per acre with ground
Aphids			equipment or 2 gallon per acre by aircraft.
Armyworms			
Bean Leaf Beetle			Pyrethroid resistance is common for Beet Armyworm and
Blister Beetle species			Tobacco Budworm. Please consult your local or state
Corn Earworm			agricultural authority to determine if resistant pest
Corn Rootworm (Adult)			populations are in your area. If so, refer to the resistance
Cowpea Curculio			management statement in the DIRECTIONS FOR USE section
Cucumber Beetle (Adult)			of this label.
Cutworms			
Dectes Stem Borer			
European Corn Borer			
False Cinch Bug			
Flea Beetle			
Grasshoppers			
Green cloverworm			
Hornworms			
Imported Cabbageworm			
Japanese Beetle (Adult)			
Leaf Skeletonizer species			
Leafhoppers			
Leafminers (Adults)			
Lesser Cornstalk Borer			
Loopers			
Kudzu Bug			
Mexican Bean Beetle			
Painted Lady (Thistle)			
Caterpillar			
Pea Leaf Weevil			
Saltmarsh Caterpillar			
Seedcorn Maggot (Adult)			
Silverspotted			
Skipper			
Spittlebug			
Stink Bug (including			
brown marmorated stink			
bugs)			
Three Cornered Alfalfa			
Hopper			
Thrips			
Tobacco Budworm			
Velvetbean Caterpillar			
Webworm			
Woollybear Caterpillar			

Lygus species	6.8 – 8.5	0.08-0.1		
Whitefly				
Twospotted spider mite				
Foliar Restrictions:				
Do not make applications less than 30 days apart				
Do not apply within 18 days of harvest.				

#### Soybean Restrictions:

• Do not apply more than 0.3 lb ai/A per season including At-Plant, PRE & PPI, and Foliar applications of this and other bifenthrin products.

#### SPINACH

#### At-Plant

PEST		USE RATES		DIRECTIONS	
	Fluid oz/A	Fluid oz/1000 Linear ft.	Pound ai/A		
Rootworm larvae Garden Symphylans	6.8 - 8.5	0.39 – 0.49	0.08-0.1	Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the seed.	
Army cutworm Armyworm species Cutworm species Grubs Root maggot Seedcorn maggot True armyworm Wireworm	3.4 - 6.8	0.2 – 0.39	0.04 – 0.08	Apply broadcast to the soil surface for control of Army cutworm, Cutworm species, True armyworm, or Armyworm species.	
<ul> <li>At Plant Restrictions:</li> <li>Do not apply more than 0.1 lb ai/A per season as an at-plant application</li> </ul>					

PPI

PEST	USE RATES		
	Fluid oz/A	Pound ai/A	
Seed Corn Maggot Wireworms	PPI 3.4 – 6.8	PPI 0.04 – 0.08	
Garden Symphylans	0.0	0.00	

#### Foliar

PEST	USE	RATES	DIDECTIONS
	Fluid oz/A	Pound ai/A	DIRECTIONS
Armyworms Colorado Potato Beetle Corn earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Leafminers Loopers Pepper Weevil Tomato Hornworm Tomato Pinworm Thrips Whitefly	2.8 - 8.5	0.033 - 0.1	<ul> <li>For control of whiteflies, apply foliar treatments of LPI.A038 by ground or air at rates of up to 0.1 lb active per acre at minimum 7 day intervals up to a maximum of 4 applications. Do not apply within 40 days of harvest.</li> <li>For control of fire ants apply LPI.A038 to the soil (at planting) or as a foliar treatment by ground or air at rates of up to 0.1 lb active per acre at minimum 7 day intervals up to a maximum of 4 applications.</li> <li>Apply the specified dosage in 5-50 gallons of finished spray per acre by air or 10-50 gallons finished spray per acre by ground.</li> </ul>
Banks Grass Mite Broad Mite Carmine Mite Fire Ants Lygus species Pacific Spider Mite Twospotted spider mite Foliar Restrictions: • Do not make appli	6.8 – 8.5 cations less the	0.08 – 0.1 an 7 days apart	
Do not apply withi			

#### Spinach Restrictions:

• Do not apply more than 0.4 lb ai/A per season including At-Plant, PRE & PPI, and Foliar applications of this and other bifenthrin products.

#### SUCCULENT PEAS AND BEANS (Crop Subgroups 6A and 6B)

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, purple hulled pea.

PEST		USE RATES		DIRECTIONS
	Fluid	Fluid oz/1000	Pound ai/A	
	oz/A	Linear ft.		
Rootworm larvae	6.8 – 8.5	0.39 – 0.49	0.08 - 0.1	Apply as a 5 to 7 inch band over the row on the
Army cutworm	3.4 - 6.8	0.2 - 0.39	0.04 - 0.08	soil surface, a 5 to 7 inch band over the open
Armyworm species				furrow (T-band), or in-furrow with the seed.
Cutworm species				
Grape colaspis				Apply broadcast over the soil surface for
Grubs				control of Army cutworm, Cutworm species,
Root maggot				True armyworm, or Armyworm species.
Seedcorn maggot				
True armyworm				
Wireworm				

#### At-Plant

# At- Plant Restrictions:

• Do not apply more than 0.1 lb ai/A per season as an at-plant application

### PRE & PPI

PEST	USE	RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
Army cutworm Armyworm species Cutworm species	PRE	PRE	<b>LPI.A038</b> can be tank mixed and applied with PRE herbicides.
Grape colaspis Grubs Root maggot	6.8 - 8.5	0.08 – 0.1	Post Plant Soil Applied: Apply through drip or Drip Tape. Apply when soil is moist towards the end of the irrigation run.
True armyworm Wireworm (PPI only)	РРІ 6.8 – 8.5	РРІ 0.08 — 0.1	LPI.A038 can be tank mixed and applied with PPI herbicides. Incorporate LPI.A038 no deeper than the intended planting depth and no deeper than 3 inches. Incorporate at depth close to the intended seed planting depth. Apply in a minimum of 10 gallons per acre. Post Plant Soil Applied: Apply through drip or Drip tape. Apply when soil is moist towards the end of the irrigation run.

PEST	USE	RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	DIRECTIONS
Aster Flea Beetle Leafhopper Adult Sap Beetle	2.1 - 8.5	0.025 - 0.1	Apply in a minimum of 2 gallons finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment.
Alfalfa Caterpillar Aphids Armyworm, Beet Armyworm, Fall Armyworm, Southern Armyworm, Yellowstriped Bean Leaf Beetle Cloverworm Corn earworm Corn earworm (Adult) Coucumber Beetle Cutworms European Corn Borer Grasshoppers Japanese Beetle Loopers Pea Leaf Weevil Pea Weevil Plant Bug Stink Bugs (including brown marmorated stink bugs) Tarnished Plant Bug	2.8 – 8.5	0.033 - 0.1	<ul> <li>When applying by air, 1 – 2 quarts of emulsified oil may be substituted for 1 – 2 quarts of water in the finished spray.</li> <li>Thorough coverage is essential to achieve control.</li> <li>Make application at the onset of infestation reaching locally determined economic threshold.</li> </ul>

Thrips			
Webworms			
Western Bean Cutworm			
Whitefly			
Banks Grass Mite			
Carmine Mite	6.8 - 8.5	0.08 to 0.1	
Lygus species	0.8 - 8.5	0.08 10 0.1	
Twospotted spider mite			
Foliar Restrictions:			
<ul> <li>Do not apply with</li> </ul>	in 3 days of ha	rvest.	
<ul> <li>Do not make appl</li> </ul>	ications less th	an 3 days apart	

#### Succulent Peas and Beans (Crop Subgroups 6A and 6B) Restrictions:

• Do not apply more than 0.2 lb ai/A per season including At-Plant, PRE & PPI, and Foliar applications of LPI.A038 and other bifenthrin containing products.

#### товассо

#### **PRE-TRANSPLANT and AT-TRANSPLANT**

PEST		USE RATES		DIRECTIONS					
	Fluid oz/A	Fluid oz/1000	Pound ai/A						
		Linear ft.							
Armyworm									
species	species Use of suitable equipment to incorporate into top								
Cutworm species				4" of the soil is required to control below ground					
Flea beetle larvae				pests.					
Mole cricket				At-transplant water treatment application: Apply					
Stalkborer	Stalkborer 0.0625 to 0.1 pound ai/A in a water treatment								
White grubs	White grubs application volume of 10 to 200 gal/A.								
Wireworm									
				May be tank mixed with Command, Spartan or					
				Aquesta <sup>™</sup> 4 F, and other herbicides approved for					
	tobacco use.								
Pre-Transplant & At	-Transplant Res	trictions:	•						
<ul> <li>Do not app</li> </ul>	ly later than layl	by.							

PEST	USE	RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
Aphid spp.* Armyworm spp. Chinch bugs Cutworm spp. Flea beetle (Adults) Grasshoppers Green bugs Japanese beetles Stink Bugs (including brown marmorated stink bugs) Thrips White flies	3.4 – 8.5	0.04 - 0.1	<ul> <li>Apply 0.04 to 0.10 lb ai/A per foliar application up to, and including, layby in a minimum of 10 gal/A.</li> <li>May be tank mixed with Command, Spartan or Aquesta™ 4 F, and other herbicides approved for tobacco use.</li> <li>*See resistance statement under "Directions for Use" section.</li> </ul>

Tarnished plant bugs		
Hornworm	6.8 - 8.5	0.08 - 0.1
Tobacco Budworm		
Spider mites	8.5	0.1
Lygus spp.		
Foliar Restrictions:		
<ul> <li>Do not make r</li> </ul>	nore than 2 folia	ar applications per s
<ul> <li>Do not apply la</li> </ul>	ater than layby.	

#### **Tobacco Restrictions:**

• Do not apply more than 0.2 lb ai/A per season including at-plant, PRE, PPI and foliar applications of LPI.A038 and other bifenthrin containing products.

#### TOMATOES, TOMATILLOS, & GROUNDCHERRIES

At-	Pla	nt
~.		

PEST		DIRECTIONS		
	Fluid	Fluid oz/1000	Pound ai/A	
	oz/A	Linear ft.		
Army cutworm	3.4 - 6.8	0.2 - 0.39	0.04 - 0.08	Apply as a 5 to 7 inch band over the row on the
Armyworm species				soil surface, a 5 to 7 inch band over the open
Cutworm species				furrow (T-band), or in-furrow with the
Flea beetle larvae				transport or seed. May be applied through
Grubs				transplant water at time of transplanting.
Root maggot				Apply broadcast to the soil surface for control
Stalkborer				of Army cutworm, Cutworm species, True
True armyworm				armyworm, Armyworm species, or Stalkborer.
Wireworm				
At- Plant Restrictions:			•	•

• Do not apply more than 0.1 lb ai/A per season as an at-plant application

#### PRE & PPI

PEST	USE	RATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
Army cutworm Armyworm species Cutworm species	PRE	PRE	<b>LPI.A038</b> can be tank mixed and applied with PRE herbicides.
Flea beetle larvae Garden symphylans Grubs	6.8	0.08	Post Plant Soil Applied: Apply through drip or Drip Tape. Apply when soil is moist towards the end of the irrigation run.
True Armyworm Wireworm			<b>LPI.A038</b> can be tank mixed and applied with PPI herbicides.
	РРІ 3.4 — 6.8	PPI 0.04 – 0.08	Incorporate <b>LPI.A038</b> no deeper than the intended planting depth and no deeper than 3 inches. Incorporate at depth close to the intended seed planting depth. Apply in a minimum of 10 gallons per acre. Post Plant Soil Applied: Apply through drip or Drip tape. Apply when soil is moist towards the end of the irrigation run.

Cabbageworm Carmine Mite Cloverworm Corn Rotworm Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leafhoppers Loopers Loopers Loopers Loopers Loopers Diamondback Melonworm Pea Weevil Pea Leaf Weevil Pea Leaf Weevil Pickleworm Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink bug species (including brown marmorated stink bugs) Tobacco Budworm Tarnished Plant Bug Thrips Whitefly Yellowstriped	PEST	USE RATES		DIRECTIONS	
Armyworns (including Beet)       control. Make application at the onset of infestation reaching locally determined economic levels.         Armyworn, Southern Bean Leaf Beetle Cabbageworm Carmine Mite Cloverworm Corn Rootworm Corn Rootworm Curumber Beetles Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leafhoppers Loopers Pea Leaf Weevil Pea Leaf Weevil Pea Leaf Weevil Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bug Stink bug species (including brown marmorated stink bugs) Tobacco Budworm Tarnished Plant Bug Thrips Whitefly       0.033 - 0.08		Fluid oz/A	Pound ai/A		
	Armyworms (including Beet) Armyworm, Fall Armyworm, Southern Bean Leaf Beetle Cabbageworm Carmine Mite Cloverworm Corn earworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leafhoppers Loopers Lygus species Melonworm Pea Weevil Pea Leaf Weevil Pickleworm Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink bug species (including brown marmorated stink bugs) Tobacco Budworm Tarnished Plant Bug Thrips Whitefly Yellowstriped			control. Make application at the onset of infestation reaching locally determined economic levels. Apply in water. Apply the specified dosage in 5 to 50 gallons of finished spray per acre by air or 10 to 50 gallons of finished spray per acre by ground. Thorough coverage is	
ArmywormTwospotted spider $6.8 - 8.5$ $0.08 - 0.1$		68-85	0.02 - 0.1	-	
Twospotted spider         6.8 - 8.5         0.08 - 0.1           mite		0.0 - 0.0	0.08 – 0.1		
		1			

#### Tomato, Tomatillo, and Groundcherry Restrictions:

• Do not apply more than 0.40 lb ai/A per season including at-plant, PRE, PPI and foliar applications of LPI.A038 and other bifenthrin containing products.

#### TREE NUTS[\*]

Foliar

African nut-tree; almond; beechnut; Brazil nut; Brazilian pine; bunya; bur oak; butternut; Cajou nut; candlenut; cashew; chestnut; chinquapin; coconut; coquito nut; dika nut; ginkgo; Guiana chestnut; hazelnut (filbert); heartnut; hickory nut; Japanese horse-chestnut; macadamia nut; mongongo nut; monkey-pot; monkey puzzle nut; Okari nut; Pachira nut; peach palm nut; pecan; pequi; Pili nut; pine nut; pistachio; Sapucaia nut; tropical almond; walnut, black; walnut, English; yellowhorn; cultivars, varieties, and/or hybrids of these

PEST	PEST USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Black Pecan Aphid Codling Moth Filbert Worm Hickory Shuckworm Leaffooted Bugs Navel Orangeworm Oblique Banded Leafroller Peach Twig Borer Pecan Leaf Casebearer Pecan Nut Casebearer Pecan Nut Casebearer Pecan Phylloxera Plant Bugs Stink Bugs (including brown marmorated stink bugs) Walnut Aphid Yellow Pecan Aphid	4.3 - 17.1	0.05 - 0.2	Apply by ground or air equipment using sufficient water to obtain full coverage of foliage. Apply as a dilute (minimum of 200 gallons of finished spray per acre) or concentrate (minimum of 50 gallons of finished spray per acre) by ground or apply the specified amount in a minimum of 10 gallons of finished spray per acre by air.
European Red Mite Pecan Weevil Spider Mite species	6.8 – 17.1	0.08 - 0.2	
Fire ants Walnut Husk Fly	8.5 – 17.1	0.1 - 0.2	

- Do not make applications less than 15 days apart.
- Do not apply within 21 days of harvest for pecans and 7 days for all other registered tree nut crops.
- Do not graze livestock in treated orchards or cut treated cover crops for feed.

#### Tree Nuts Restrictions:

• Do not apply more than 0.5 lb active ingredient (1 quart) per acre per season including at-plant, PRE, PPI and foliar applications of LPI.A038 and other bifenthrin containing products.

#### [\*][Not for Use in California]

#### TUBEROUS AND CORM VEGETABLES (Crop Subgroup 1C)

Potato, Sweet potato, Arracacha, Arrowroot, Chinese artichoke, Jerusalem artichoke, Edible canna, Cassava (bitter and sweet), Chayote (root), Chufa, Dasheen (taro), Ginger, Leren, Tanier, Turmer, Yam bean, True yam.

#### At-Plant

PEST	USE R	ATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
Grape colaspis Rootworms Sweet potato flea beetle White grub Wireworms	12.75 – 25.5	0.15 – 0.3	LPI.A038 insecticide may be applied as a soil incorporated broadcast, directed bed spray or a T-band spray into the planting furrow for the control of wireworms, sweet potato flea beetle, and white grubs. Apply LPI.A038 at the rate of 0.15 to 0.3 pounds active ingredient (12.75 to 25.5 fluid ounces formulated) per acre in a minimum of 10 gallons per acre of spray.
At Plant Restrictions	:		

• Do not apply more than 0.3 lb ai/A per season as an at-plant application.

#### Lay-By

PEST	USE R/	ATES	DIRECTIONS
	Fluid oz/A	Pound ai/A	
Grape colaspis Rootworms Wireworms White grub	12.75 – 25.5	0.15 - 0.3	LPI.A038 insecticide may be applied as one or more soil directed and incorporated treatments at cultivation or layby for the control of wireworms and white grubs. Apply LPI.A038 to the drill area and incorporate by cultivation equipment set to throw soil towards the drill area. Apply in a minimum of 10 gallons per acre of spray.

#### PPI

PEST	USE RATES		DIRECTIONS
	Fluid oz/A	Pound ai/A	
Grape colaspis	12.75 – 25.5	0.15 - 0.3	Apply LPI.A038 to the transplant area and incorporate
Rootworms			to planting depth. Apply LPI.A038 in a minimum of 10
Wireworms			gallons per acre of spray. May be applied as a broadcast
White grub			application or an incorporated band application.

Fluid oz/APound ai/ADIRECTIONSBanded Cucumber beetleFluid oz/APound ai/AApply in a minimum of 3 gallons finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment.Black flea beetle Corn wireworm Cucumber beetle Japanese beetle grubs June beetle Rootworms Southern potato wireworm Sugarcane beetle Sweetpotato flea beetle2.8 - 8.50.033 - 0.1LPI.A038 may be applied as a foliar spray for the control of the adult life stages of flea beetles (rootworms), white fringed beetles and May/June beetles (white grubs).Sweetpotato flea beetle Sweetpotato flea beetle2.8 - 8.50.033 - 0.1Finged beetles and May/June beetles (white grubs).Foliar Restrictions: • Do not make more than 2 foliar applications per season • Do not make applications less than 21 days apart.Bound ai/ADIRECTIONS	PEST	USE RATES		DIDECTIONS
beetle Black flea beetle Corn wireworm Cucumber beetle Japanese beetle grubs June beetle Rootworms Southern potato wireworm Sugarcane beetle Sweetpotato flea beetle Sweetpotato flea beetle Sweetpotato flea beetle Sweetpotato weevil Tobacco wireworm Whitefringed beetle White grub - Do not make more than 2 foliar applications per season		Fluid oz/A	Pound ai/A	DIRECTIONS
Do not make more than 2 foliar applications per season	beetle Black flea beetle Corn wireworm Cucumber beetle Japanese beetle grubs June beetle Rootworms Southern potato wireworm Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Tobacco wireworm Whitefringed beetle		0.033 - 0.1	by air or in a minimum of 10 gallons per acre with ground equipment. LPI.A038 may be applied as a foliar spray for the control of the adult life stages of flea beetles, click beetles (wireworms), cucumber beetles (rootworms), white
<ul> <li>Do not make applications less than 21 days apart.</li> </ul>			-	son
<ul> <li>Do not apply within 21 days of harvest.</li> </ul>				

#### Tuberous and Corm Vegetables (Crop Subgroup 1C) Restrictions:

• Do not apply more than 0.5 lb ai/A per season including soil, lay-by, at-plant, PPI and foliar applications of LPI.A038 and other bifenthrin containing products.

#### **APPLICATIONS INSTRUCTIONS – ORNAMENTALS\***

\* NOT FOR USE IN CALIFORNIA TO CONTROL LISTED INSECT PESTS ON ORNAMENTALS AND TREES (INCLUDING FIELD AND CONTAINER GROWN NURSERY STOCK, CHRISTMAS TREES, INTERIORSCAPES AND PLANTSCAPES, LAWNS, TREES AND SHRUBS, AND ON GOLF COURSES). INTERIORSCAPES AND PLANTSCAPES, LAWNS, TREES AND SHRUBS, AND ON GOLF COURSES **DO NOT** FALL WITHIN THE SCOPE OF WORKER PROTECTION STANDARD FOR AGRICULTURAL PESTICIDES (40 CFR PART 170).

For use on plants intended for aesthetic purposes or climatic modifications and being grown in interior plantscapes and on outdoor ornamentals, Christmas trees, nurseries, lawns, and golf courses.

#### PRODUCT INSTRUCTIONS

**LPI.A038** mixes with water and other aqueous carriers to control listed insects and mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in interiorscapes: hotels, shopping malls, office buildings, and outdoor plantscapes: nurseries, residential dwellings, parks, institutional buildings, recreational areas, athletic fields, golf courses, and home lawns. Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity within 365 days of application.

**LPI.A038** may be tank-mixed with other products, including insect growth regulators. When tank mixing **LPI.A038** with other products observe all precautions and limitations on each separate product label. The addition of spreader stickers is not necessary. The physical compatibility of **LPI.A038** may vary with

different sources of pesticide products, and local cultural practices. Prepare any tank mixture which has not been previously tested on a small scale (pint or quart jar), using the proper proportions of chemicals and water to ensure the physical compatibility of the mixture. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

The following procedure is recommended for preparation of a new tank mix, unless specified otherwise in label directions:

- 1. Add wettable powders to tank water
- 2. Agitate
- 3. Add fluids and flowables
- 4. Agitate
- 5. Add emulsifiable concentrates
- 6. Agitate

If a mixture is found to be incompatible following the order of addition, try reversing the order of addition, or increase the volume of water. **Note:** If the tank mixture is found to be compatible after increasing the amount of water then the sprayer will need to be recalibrated for a higher volume application. Do not allow tank mix to stand overnight. When using tank mixes, observe all restrictions and precautions which appear on the labels of these products. Provide constant agitation to keep the mixture in solution.

All outdoor spray applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- 1. Application to pervious surfaces such as soil, lawn, turf, and other vegetation;
- 2. Perimeter band treatments of 7 feet wide or less from the base of a man-made structure to pervious surfaces (e.g., soil, mulch, or lawn);
- 3. Applications to vertical surfaces (such as the side of a man-made structure) directly above impervious surfaces (e.g., driveways, sidewalks, etc.), up to 2 feet above ground level;
- 4. Applications to vertical surfaces directly above pervious surfaces, such as soil, lawn, turf, mulch or other vegetation) only if the pervious surface does not drain into ditches, storm drains, gutters, or surface waters.

Spot treatments must not exceed two square feet in size (for example, 2 ft. by 1 ft. or 4 ft. by 0.5 ft.).

# PRODUCT RESTRICTIONS

- DO NOT Apply More than 0.23 lb ai/Acre of LPI.A038 for Lawns or Trees.
- For soil or foliar applications, do not apply by ground within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.
- Do not apply the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.
- Do not allow the product to enter any drain during or after application.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios.
- Do not apply or irrigate to the point of runoff.
- Do not make applications during rain. Avoid making applications when rainfall is expected before the product has sufficient time to dry (minimum 4 hours).
- Rainfall within 24 hours after application may cause unintended runoff of pesticide application.

- Do not apply when the wind speed is greater than 15 mph.
  - For outdoor applications to commercial nurseries:
    - Do not apply when the wind speed is greater than 15 mph.
    - Applicators are required to select the nozzle and pressure that deliver a medium or coarser droplet size (ASABE S572).
    - For soil or foliar applications, do not apply by ground equipment within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.

#### **APPLICATION RATES**

#### TRUNK SPRAYS TO ORNAMENTAL TREES (including Christmas trees) For Control of Bark Beetles and Boring Beetles

Refer to the table below. Application rates and timing differ according to the target pest and other factors specific to each local situation. Consult your local State Extension specialist or other qualified expert for recommendations. Note: Do not apply more than 12.8 fl. oz. (0.2 lbs. AI) per acre of this product to trees. Repeat application may be necessary if reinfestation is likely.

PEST	RATE	SPRAY VOLUME	USE INSTRUCTIONS
Dandroctonus bark	21 - 43 fl. oz.	Use 1-4 gallons	Make applications to the trunk
beetles such as	per 100 gallons	of finished spray	of the tree with a hydraulic
mountain pine beetle,	(0.25 – 0.5 lb. Al	per tree.	sprayer in the early spring or
southern pine beetle,	per 100 gallons)		prior to adult beetle flight and
western pine beetle,			tree infestation.
and black turpentine			Apply spray directly to the
beetle.			main trunk from the base of
Engraver beetle (Ips	21 - 43 fl. oz.	Use 10-14	the tree to at least half-way
spp.)	per 100 gallons	gallons of	into the live crown. Spray until
	(0.25 – 0.5 lb. Al	finished spray	the bark is thoroughly wet.
	per 100 gallons)	per tree.	
Other bark beetles	21 - 43 fl. oz.	Use 2-5 gallons	Make applications of a spray
such as ambrosia	per 100 gallons	of finished spray	mixture to the trunk,
beetles, elm bark	(0.25 – 0.5 lb. Al	per tree.	scaffolding and limbs of the
beetles, and	per 100 gallons)		tree with a hydraulic sprayer in
metallic wood			the early spring or prior to
borers such as			adult beetle flight and tree
emerald ash borer.			infestations. Spray until the
			bark is thoroughly wet.

Clearwing moth borers	8.6 – 17.2 fl. oz.	Use 1-4 gallons	Apply to the branches and trunks
such as ash borer,	per 100 gallons	of finished spray	prior to adult emergence. Spray
banded ash	(0.1–0.2 lb. Al	per tree.	until the bark is thoroughly wet.
clearwing, dogwood	per 100 gallons)		For maximum residual control,
borer,			use highest labeled rate.
lesser peachtree borer,			
lilac			
borer, oak borer,			
peachtree			
borer, rhododendron			
borer			
Coleopteran borers such			
as			
bronze birch borer,			
flatheaded			
apple tree borer			

# Treatment of Infested Trees to Control Emerging Brood

Make applications of a spray mixture containing 2.0 pints of **LPI.A038** per 100 gallons of water to trees that still have beetles in the bark. Apply spray directly to the main trunk from the base of the tree to at least half-way into the live crown. Spray until the bark is thoroughly wet (usually 1 to 4 gallons of spray per tree). Do not apply more than 0.2 lbs. AI (19.4 fl. oz.) of this product to trees per acre.

Trees on which all needles have turned brown generally have been vacated and should not be sprayed unless infestation is confirmed. To confirm an infestation, scrape off the outer bark to determine if trees are still infested. If live infestations remain in the trunks, fell the trees and cut into sections. Spray the trunk and large limbs and turn sections so that all of the surface area can be treated. Do not apply more than 0.2 lbs. AI (19.4 fl. oz.) of this product to trees per acre.

#### **PRODUCT INFORMATION**

# FOLIAR SPRAYS TO ORNAMENTALS AND TREES

# (Field and Container Grown Nursery Stock, Christmas Trees, Interiorscapes and Plantscapes, Lawns, Trees and Shrubs, and on Golf Courses )

For applications to ornamentals (trees, shrubs, ground covers, bedding plants and foliage plants, conifers (field and container grown), Christmas Trees and pine seed orchards) apply 0.6 to 0.44 fl. oz. LPI.A038 per 1,000 sq. ft. or 2.4 to 19.4 fl. oz. per 100 gallons. LPI.A038 may be diluted and applied in various volumes of water providing that the maximum label rate (0.44 fl. oz. per 1,000 sq. ft. or 19.4 fl. oz. per 100 gallons) is not exceeded. LPI.A038 may be applied through low volume application equipment by dilution with water or other carriers and providing that the maximum label rate (0.44 fl. oz. per 1,000 sq. ft. or 19.4 fl. oz. per

# Calculating Dilution Rates Using the Ornamental Application Rates Table and the LPI.A038 Dilution Chart

Use the following steps to determine the appropriate dilution of this product required to control the specific pests:

1. Find the least susceptible target pest (the pest that requires the highest application rate for control).

- 2. Select an application rate in terms of fluid ounces of this product.
- 3. Find your application volume and how much spray you want to prepare.
- 4. Use the **Ornamental Dilution Chart** to determine the appropriate volume of this product that must be mixed in your desired volume of water.

For example, to control black vine weevil adults on rhododendron, the **Ornamental Application Rates** table shows that 0.12 to 0.20 fl. oz. of this product is applied per 1,000 sq. ft. You select an application rate of 0.20 fl. oz. per 1,000 sq. ft. because maximum residual control is desired. Your

application volume is approximately 300 gallons per acre which is equivalent to 6.9 gallons per 1,000 sq. ft. Consulting the **Ornamental Dilution Chart** shows that you should dilute 0.72 fl. oz. of this product in 10 gallons of water.

LPI.A038 ORNAMENTAL DILUTION CHART							
Analisation Data	Fluid Ounces (mL) of LPI.A038 diluted to the Volumes of Finished Spray						
Application Rate	e 1 Gallon 5			llons 10 Gallo		llons	100 Gallons
Fl. oz./1,000 sq. ft.	Fl. oz.	mL	Fl. oz.	mL	Fl. oz.	mL	Fl. oz.
0.06	0.018	0.5	0.09	2.6	0.18	5.3	1.8
0.12	0.036	1.1	0.18	5.3	0.36	10.6	3.6
0.20	0.072	2.1	0.36	10.6	0.72	21.3	7.2
0.44	0.144	4.3	0.72	21.3	1.44	42.6	14.4

\_ <u>(17.15)(Fl. Oz. of LPI.A038 added to tank)</u> = Percent Active Ingredient of Spray Mix (gallons of finished spray mix)(128)

# ORNAMENTAL AND TREE FOLIAR APPLICATION RATES

The application rates listed in the following table will provide control of the noted pests under typical conditions. However, at the discretion of the applicator, this product may be applied at up to 0.44 fl. oz. per 1,000 sq. ft (19.4 fl. oz. per 100 gallons) to control each of the pest listed in this table. Use the higher labeled application rates when maximum residual control is desired.

PEST	RATES	USE INSTRUCTIONS
Bagworms <sup>1</sup>	0.06 – 0.12 fl. oz. per	<sup>1</sup> Bagworms: For best results,
Cutworms	1,000 sq. ft.	apply when larvae begin to
Elm Leaf Beetles		hatch and spray larvae
Fall Webworms	(1.8 – 3.8 fl. oz. per 100 gallons)	directly. Applications when
Gypsy Moth Caterpillars		larvae are young will be most
Lace Bugs		effective.
Leaf Feeding Caterpillars		
Tent Caterpillars		<sup>2</sup> Beetles, Scale Crawlers,
Tussock moth		Twig Borers, and Weevils:
Adelgids	0.12 – 0.20 fl. oz. per	May treat trunks, stems and
Ants (Excluding fire, carpenter,	1,000 sq. ft.	twigs in addition to plant
harvester, and pharaoh ants)		foliage.
Aphids	(3.6 – 7.2 fl. oz. per 100 gallons)	
Bees		<sup>3</sup> Spider Mites: LPI.A038
Beet Armyworm		provides optimal two
Beetles		•

PEST	RATES	USE INSTRUCTIONS
Black Vine Weevil (Adults)		spotted spider mite control
Scales, such as		when applied during spring
Brown Soft Scales		to mid-summer. Higher
California Red Scale (Crawlers) <sup>2</sup>		labeled application rates
Elongated Hemlock Scale		and/or more frequent
Pine Needle Scales (crawlers) <sup>2</sup>		treatments may be required
San Jose Scales (Crawlers) <sup>2</sup>		for acceptable two spotted
Broad Mites		spider mite control during
Budworms		mid- to late-summer. The
Cicadas		addition of a surfactant or
Citrus Thrips		horticultural oil may
Clover Mites		increase the effectiveness of
Crickets		this product. Combinations
Earwigs		of this product with other
European Red Mite		registered miticides have
Flea Beetles		also proven effective.
Fungus Gnats (Adults)		Alternately, LPI.A038
Glassywinged Sharpshooter		applications may be rotated
Grasshoppers		with those of other products
Japanese Beetle (Adult)		that have different modes of
Leafhoppers		action in control programs
Leafrollers		that are designed to
Mealybugs		manage resistance by two
Mites		spotted spider mites.
Nantucket Pine Tip Moth		Consult your local
Pillbugs		Cooperative Extension
Pine sawflies		Service for resistance
Plant Bugs (including <i>Lygus</i> spp.)		management
Psyllids+		recommendations in your
Spider Mites <sup>3</sup>		region.
Spittlebugs		
Thrips		
Tip Moths		
Treehoppers		
Twig Borers <sup>2</sup>		
Weevils <sup>2</sup> such as		
White Pine Weevil		
Pales Weevil		
Diaprepes adults		
Orchid Weevil		
White flies		
Zimmerman pine moths	-	
Leafminers	0.20 – 0.44 fl. oz. per	
Pecan Leaf Scorch Mite	1,000 sq. ft.	
Pine Shoot Beetle (Adults)		
Spider Mites <sup>3</sup>	(7.2 – 14.4 fl. oz. per 100 gallons)	

# STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### CONTAINER HANDLING:

[For plastic containers ≤ 5 gallons: Nonrefillable Container: Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.]

[For plastic containers > 5 gallons: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Recap 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. Turn the container or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.]

#### 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 CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, 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 PURCHASE 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 CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

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## {LANGUAGE ON LABEL AFFIXED TO CONTAINER}

#### **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 the uses covered by the certified applicator's certification.



### LPI.A038<sup>™</sup>

[Contains bifenthrin, the active ingredient used in Capture® LFR.] For mixing directly with liquid fertilizer to control listed soil insect pests ACTIVE INGREDIENT: (% by weight) Bifenthrin\*......17.15% 

\*Cis isomers 97% minimum, trans isomers 3% maximum.

This product contains 1.5 pounds active ingredient per gallon.

**KEEP OUT OF REACH OF CHILDREN** 

# WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

#### FIRST AID

FIRST AID			
If swallowed:	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> </ul>		
	<ul> <li>Have person sip a glass of water if able to swallow.</li> </ul>		
	• Do not induce vomiting unless told to do so by the poison control center or doctor.		
	• Do not give anything by mouth to an unconscious person.		
If in eyes:	<ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> </ul>		
	• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.		
	• Call a poison control center or doctor for treatment advice.		
	HOT LINE NUMBER		
Have the proc	fuct container or label with you when calling a poison control		

the product container or label with you when calling a poison con center or doctor, or going for treatment. You may also contact Rocky Mountain Poison and Drug Safety at 1-866-944-8565 for emergency medical treatment information.

NOTE TO PHYSICIAN - This product is 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.

#### For Chemical Emergency:

Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

May be fatal if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS: 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 if bees are visiting the treatment area. Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms. The use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

#### NON-TARGET ORGANISM ADVISORY STATEMENT

This product is highly toxic to bees and other pollinating insects exposed to direct treatment or to residues in/on blooming crops or weeds. Protect pollinating insects by following label directions intended to minimize drift and reduce pesticide risk to these organisms.

#### PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow coming in contact with oxidizing agent. Hazardous Chemical reaction may occur.

# STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

PESTICIDE DISPOSAL: Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### **CONTAINER HANDLING:**

[For plastic containers ≤ 5 gallons: Nonrefillable Container: Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.]

[For plastic containers > 5 gallons: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Recap 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.]

See inside label booklet for additional Precautionary Statements and Directions for Use.

[LPI.A038<sup>™</sup>] is not manufactured, or distributed by [FMC Corporation], seller of [Capture® LFR].

EPA Reg. No. 34704-1188 EPA Est. No. Net Weight: [EPA APPROVAL DATE]

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