NOTICE OF PESTICIDE: Image: Conditional	SAVING AND A COLOR OF	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460	EPA Reg. Number: 89168-126	Date of Issuance: 7/26/22	
			Term of Issuance:		
Name and Address of Registrant (include ZIP Code): Karen Murphy Liberty Crop Protection 1880 Fall River Drive, Suite 100 Loveland, CO 80538 Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number. On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others. This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions: 1. Submit and/or cite all data required for registration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data. 3/26/22 Jacquelyn Herrick, Product Manager 03 Date: 7/26/22		Reregistration	Conditional		
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Jacquelyn Herrick, Product Manager 03	Signature of Approving	Official:	Date:		
	Jelter	rick	7/26/22		
	1 2				

2. You are required to comply with the data requirements described in the DCI Order identified below:

Page 2 of 3 EPA Reg. No. 89168-126 Decision No. 571934

- a. Bifenthrin GDCI 128825-902
- b. Bifenthrin GDCI 128825-1159
- c. Bifenthrin GDCI 128825 1114

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI Order listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1

- 3. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.
- 4. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 89168-126."
- 5. Submit one copy of the final printed label for the record before you release the product for shipment.

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 the Federal Insecticide Fungicide and Rodenticide Act 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) list 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.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

• Basic CSF dated 06/29/2021

If you have any questions, please contact Jamey Shuler by phone at (202) 566-2898, or via email at <u>Shuler.Jamey@epa.gov</u>.

Enclosure

RESTRICTED USE PESTICIDE

Toxic to fish and aquatic organisms.

For retail sale to and use only by certified applicators, or persons under their direct supervision and only for the uses covered by the certified applicator's certification.

> GROUP 3A INSECTICIDE Bifenthrin

> > 07/26/2022

Under the Federal Insecticide, Fungicide

and Rodenticide Act as amended, for the

89168-126

pesticide registered under

EPA Reg. No.

LIBERTY BIFEN SC

For Mixing directly with liquid fertilizer to control listed soil insect pests

Active Ingredient:	By Wt.
Bifenthrin*:	
Other Ingredients:	
TOTAL	100.00%
*Cis isomers 97% minimum, trans isomers 3% maximum. This product contains 1.5 pounds active ingredient per gallon.	ACCEPTED

This product contains 1.5 pounds active ingredient per gallon.

For both indoor and outdoor use.

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 other panels for additional precautionary information.

	FIRST AID
If Swallowed	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
If On Skin or Clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
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.
FOR 24-HOUR accident call 1-8	BER - Have the product container or label with you when calling a poison control center or doctor, or going for treatment. EMERGENCY MEDICAL ASSISTANCE CALL: 1-800-222-1222. FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or 800-424-9300. ICIAN - This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be
evacuated. Trea	atment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and should be avoided.
EPA Reg. No. 89	1168-XXX

EPA Est. No.:

Net Contents: ___ Gallons

{Batch/Lot # Note to Reviewer: to be added by inkjet on bottle or on printed label}

Manufactured For:

Liberty Crop Protection LLC 1880 Fall River Drive, Suite 100 Loveland CO, 80538

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Warning - May be fatal if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

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 \ge 14 mils, nitrile rubber \ge 14 mils, neoprene rubber \ge 14 mils, polyvinyl chloride \ge 14 mils, or viton \ge 14 mils, Shoes plus socks and Protective eyewear (goggles, face shield, or safety glasses)

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 ≥ 14 mils, or viton ≥ 14 mils
- Shoes plus socks,
- Protective eyewear

Mixers and loaders supporting aerial applications to cotton, and those 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 ≥ 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:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing /PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change 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.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow coming into contact with oxidizing agents, 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. Do not apply this product through any type of irrigation system.

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 made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride ≥ 14 mils, or viton ≥ 14 mils,
- Shoes plus Socks and
- Protective Eyewear (goggles, face shield, or safety glasses)

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 on farms, forests, nurseries, or greenhouses.

Do not enter or allow people or pets on treated areas until the spray has dried.

RESISTANCE- MANAGEMENT RECOMMENDATIONS

For resistance-management, LIBERTY BIFEN SC contains a Group 3A insecticide. Any insect population may contain individuals naturally resistant to LIBERTY BIFEN SC 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 resistance, take the following steps:

- Rotate the use of LIBERTY BIFEN SC or other Group 3A insecticides within a growing season, or among growing seasons, with different groups that control the same pests. Avoid application of more than the maximum seasonal use rate or the total number of consecutive sprays of LIBERTY BIFEN SC per season.
- 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 (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
 - o 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.
 - o Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - o When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - o Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - o 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 resistance management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance, contact Liberty Crop Protection at 844-425-8488. 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 ft 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 miles per hour 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 manufacturer's 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

NON-TARGET ORGANISM ADVISORY STATEMENT (Environmental Hazards):

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.

Handheld Technology Applications:

Take precautions to minimize spray drift.

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 (name of pyrethroid) 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).
 - o 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:
 - o The area of application is considered prime farmland (as defined in 7 CFR § 657.5).
 - o Conservation tillage is being implemented on the area of application. Conservation Directions for Use 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.
 - o A functional terrace system is maintained on the area of application.
 - o Water and sediment control basins for the area of application are functional and maintained.
 - o 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

GROUND APPLICATIONS

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

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, ponds, estuaries, and commercial fish ponds).

Applications made by mosquito control districts and other public health officials are exempt from this requirement

Non-ULV Aerial Application

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

Application and Mixing Instructions

LIBERTY BIFEN SC is an insecticide/miticide that contains 1.5 pounds of bifenthrin per gallon. LIBERTY BIFEN SC 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 rates under light to moderate pest infestations, and higher rates under heaver pest pressure. In arid climates, applications rates are generally higher. Fill the tank one-half full with liquid fertilizer or water and begin spray tank agitation. Add the proper amount of LIBERTY BIFEN SC and then add the rest of the fertilizer or water. Maintain agitation until the mixture has been applied.

SHAKE WELL BEFORE USING

Agitate the LIBERTY BIFEN SC spray solutions in nurse tanks prior to moving the solution to spray system.

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

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

LIBERTY BIFEN SC 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 or as a transplant-water drench during setting. Refer to the table s below for pest control or suppression instructions.

LIBERTY BIFEN SC 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 LIBERTY BIFEN SC. Do not allow a tank mixture to set overnight, but if this occurs agitate tank mixture prior to application.

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

LIBERTY BIFEN SC may be applied in tank mixtures with other products approved for use on registered crops. To insure successful applications, product compatibility tests should be conducted.

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 LIBERTY BIFEN SC Use Per Acre Per Season

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

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 <u>https://www.epa.gov/pollinator-protection/find-bestmanagement-practices-protect-pollinators</u>.

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.

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.

BRASSICAS

Head and Stem Brassica Vegetables including: Broccoli, Chinese, Broccoli (gailon, white flowering broccoli), Brussels Sprouts, Cauliflower, Cavalo broccolo, Kohlrabi, Cabbage, Chinese Cabbage (napa), and Chinese Mustard Cabbage (gai choy) When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. Apply as a 5-7 inch band (T-band) over the open seed furrow, or in-furrow with the seed. Cutworm and armyworm treatments may be applied as broadcast treatments to the soil surface.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08
Grubs			
Seedcorn maggot			
Cabbage maggot			
Root maggots			
Root aphids			
Army cutworm			
Cutworm spp.			
Armyworm spp.			

- Do not apply more than 0.1 Ib active ingredient per acre per season as an at-plant application.
- Do not apply more than 0.5 Ib active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

BUSHBERRIES (FOLIAR)

Blueberry, highbush and lowbush, Currant, Elderberry, Gooseberry, Huckleberry

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below.

PEST	USE RATES		
	Fluid oz/acre	Pound ai/acre	
Blueberry maggot,	3.4 to 8.5	0.04 to 0.1	
Fruitworms,			
Lecanium scale (crawlers)			
Plum curculio			
Obliquebanded leaf roller			
Red banded leafroller			
Variegated leafroller			
Spanworm			
Leafhoppers			
Aphids			
Banks Grass Mite	6.8 to 8.5	0.08 to 0.1	
Twospotted Spider Mite			
Carmine Mite			
Pacific Spider Mite			
Lygus Spp.			

Restrictions:

• Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons finished spray per acre with ground equipment. Thorough coverage is essential to achieve control.

- Do not apply more than 0.5 Ib active ingredient per acre per season.
- Do not make applications less than 7 days apart.
- Do not apply within 1 day of harvest.

CILANTRO, CORIANDER

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. 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.

PEST		USE RATES	
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Wireworm Flea beetle Iarvae Cutworm spp. Armyworm spp.	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

Restrictions:

- Do not apply more than 0.1 Ib active ingredient per acre per season as an at-plant application.
- Do not apply more than 0.5 Ib active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

CITRUS (BARE SOIL SURFACE UNDER DRIP LINE) When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. Apply LIBERTY BIFEN SC by ground equipment to bare soil beneath citrus trees. LIBERTY BIFEN SC 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.

LIBERTY BIFEN SC 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 LIBERTY BIFEN SC as they attempt to burrow into the root zone. Disturbance of the soil beneath trees should be minimized.

Timing of LIBERTY BIFEN SC 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 LIBERTY BIFEN SC 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 LIBERTY BIFEN SC soil barrier in place prior to drop of the neonates.

LIBERTY BIFEN SC is one of several effective tools in an integrated pest management program for Citrus Root Weevils. Apply LIBERTY BIFEN SC 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, 42.5 fluid ounces formulated product should be used to obtain the longest residual management of Diaprepes root weevil. If the citrus grove to be treated is in an area where weather conditions will promote more than one peak of pest emergence, 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.

PEST	USE RATES		
	Fluid oz/acre	Pound ai/acre	
Asian cockroach (Blattélla asahìnae)	8.5 to 21.25	0.1 to 0.25	
Diaprepes Root Weevil (<i>Diaprepes abbreviatus</i>) Southern Blue Green Citrus Root Weevil (<i>Pachnaeus litus</i>) Blue Green Citrus Root Weevil (<i>Pachnaeus opalus</i>) Brown Leaf Notcher (<i>Epicaerus mexicanus</i>) Little Leaf Notcher (<i>Artipus floridanus</i>)	21.25 to 42.5	0.25 to 0.50	
 Restrictions: Do not apply through irrigation systems. Do not allow any application of LIBERTY BIFEN SC to contact fruit or folional systems. 	age.		

- Do not apply more than a total of 42.5 fluid ounces of formulated product (0.5 lb active ingredient) per acre per year.
- Apply the specified dosage in a minimum of 40 gallons of finished spray per acre.
- Do not apply by air.

CORN (AT PLANT)

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

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. Apply as a 5 to 7 inch band (T band) over an open furrow, or in-furrow with the seed. Position the spray nozzle behind the planter shoe in front of the press wheel centered over the row. For Army cutworm, Stalkborer, Cutworm spp., True armyworm or Armyworm spp., 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.

	USE RATES	
Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
6.8 to 17.0	0.39 to 0.98	0.08 to 0.2
3.4 to 13.6	0.2 to 0.78	0.04 to 0.16
	6.8 to 17.0	Fluid oz/acre Fluid oz/1000 Linear ft. 6.8 to 17.0 0.39 to 0.98

Restrictions:

- Do not apply more than 0.2 Ib active per acre per season as an at-plant application.
- For field corn- Do not apply more than 0.3 Ib active ingredient per acre per season including ppi, at-plant, pre-emergence, and foliar applications of other bifenthrin products.
- For sweet corn- Do not apply more than 0.2 Ib active ingredient per acre total per season including ppi, at-plant, preemergence, and foliar applications of other bifenthrin products.

CORN (PRE & PPI)

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

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. For PPI treatments, the 4 to 5.3 fluid oz/A rate must be used. LIBERTY BIFEN SC can be tank mixed and applied with PPI herbicides. Incorporate LIBERTY BIFEN SC no deeper than the intended planting depth and no deeper than 3 inches. Incorporate at a depth close to the intended seed planting depth.

For PRE treatments, the 3.4 fluid oz/A rate may be applied and can be tank mixed and applied with PRE herbicides.

PEST	USE RATES		
	Fluid oz/acre	Pound ai/acre	
Black Cutworm	4 to 5.3	0.047 to 0.062	
Grape colaspis	Pre-Plant Incorporated (PPI)	Pre-Plant Incorporated (PPI)	
White Grub			
Wireworm			
Seedcorn Maggot			
Armyworm spp.			
Seed corn beetle			
Black Cutworm	3.4	0.04	
Armyworm spp.	Pre-Emergence (PRE)	Pre-Emergence (PRE)	
Stalkborer			
Seed corn beetle			

Restrictions:

- For field corn- Do not apply more than 0.3 lb active ingredient per acre total per season including ppi, at-plant, pre-emergence, and foliar applications of other bifenthrin products.
- For sweet corn Do not apply more than 0.2 lb active ingredient per acre total per season including ppi, at-plant, preemergence, and foliar applications of other bifenthrin products.

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (FOLIAR USE)

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids	2.8 to 8.6 fl. oz.	Apply in a minimum of 2 to 5 gallons of finished spray per acre by
Army Cutworm	(0.033 to 0.10 lb.	aircraft or in a minimum of 10 gallons per acre with ground
Beet Armyworm	ai)	equipment. To improve control by aircraft, use 5 gallons of finished
Cereal Leaf Beetle	per acre	spray per acre particularly when initial populations are heavier than
Chinch Bug		normal. When applying by air, 1 to 2 quarts of emulsified oil may
Common Stalk Borer		be substituted for 1 to 2 quarts of water in the finished spray.
Corn Earworm		
Corn Rootworm Adult		Thorough coverage is essential to achieve control.
Cucumber Beetle Adults		
Cutworm Species		To Control Ear-Attacking Pests: Apply LIBERTY BIFEN SC just before
European Corn Borer		silking and repeat as necessary to maintain control but do not
Fall Armyworm		exceed maximum application rates and reapplication intervals listed
Flea Beetle		elsewhere in this section.
Grasshoppers		
Greenbug		Southwestern Corn Borer, European Corn Borer: Make application
Japanese Beetle Adult		for corn borer control with initial application at or shortly before
Sap Beetle		egg hatch.
Southern Armyworm Southern		
Corn Leaf Beetle		For Control Of Other Insect Pests: Apply when pests first appear
Southwestern Corn Borer		and repeat as necessary but do not exceed maximum application
Stinkbugs		rates and reapplication intervals listed elsewhere in this section.
Tarnished Plant Bug		
True Armyworm		
or		
Armyworm Species Webworms		
Western Bean Cutworm		
Yellowstriped Armyworm		

Banks Grass Mite	6.9 to 8.6 fl. oz.	Apply for Banks Grass Mite control when colonies first form prior to
Carmine Mite	(0.08-0.10 lb. ai)	leaf damage or discoloration and before dispersal above the bottom
Twospotted Spider Mite	per acre	third of the plant.
		For Twospotted Spider Mite and Carmine Mite control, apply when colonies first form prior to leaf damage or discoloration and before widespread mite dispersal throughout the canopy. Higher 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.

Restrictions:

- Do not apply more than 0.3 Ib active ingredient per acre per season including pre and ppi, at-plant, plus foliar applications.
- Do not apply within 30 days of harvest.
- Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application.
- 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.
- Use of LIBERTY BIFEN SC on corn is prohibited in all coastal counties.

SWEET CORN (GRAIN AND SILAGE), SWEET CORN GROWN FOR SEED

(FOLIAR USE)

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids	2.8 to 8.6 fl. oz.	Apply in a minimum of 2 gallons of finished spray per acre by
Army Cutworm	(0.033-0.10 lb.	air or in a minimum of 10 gallons per acre with ground
Beet Armyworm	ai) per acre	equipment.
Cereal Leaf Beetle		
Chinch Bug		When applying by air, 1 to 2 quarts of emulsified oil may be
Common Stalk Borer		substituted for 1 to 2 quarts of water in the finished spray.
Corn Earworm		
Corn Rootworm Adults		Thorough coverage is essential to achieve control.
Cucumber Beetle Adult		
Cutworm Species		To Control Ear-Attacking Pests: Apply LIBERTY BIFEN SC when
European Corn Borer		silking begins and repeat as necessary to maintain control but
Fall Armyworm		do not exceed maximum application rates and reapplication
Flea Beetle		intervals listed elsewhere in this section.
Grasshoppers		
Greenbugs		Southwestern Corn Borer, European Corn Borer: Make 2
Japanese Beetle Adult		applications for corn borer with the initial application at or
Sap Beetle		shortly before egg hatch.
Southern Armyworm Southern Corn		
Leaf Beetle Southwestern Corn		For Control Of Other Insect Pests: Apply when pests first
Borer		appear and repeat as necessary but do not exceed maximum
Stinkbugs		application rates and reapplication intervals listed elsewhere in
Tarnished Plant Bug		this section.
True Armyworm		
or Armyworm Species		
Webworms		
Western Bean Cutworm		
Yellowstriped Armyworm		

Banks Grass Mite Carmine Mite Twospotted Spider Mite	6.9 to 8.6 fl. oz. (0.08-0.10 lb. ai) per acre	Apply for Banks Grass Mite control when colonies first form prior to leaf damage or discoloration and before dispersal above the bottom third of the plant.
		For Twospotted Spider Mite and Carmine Mite control, apply when colonies first form prior to leaf damage or discoloration and before widespread mite dispersal throughout the canopy.
		Higher rates will be necessary for heavier initial populations and corn under heat or drought stress.

RESTRICTIONS:

- Do not apply more than 0.2 Ib active ingredient (12.8 ounces formulated product) per acre per season.
- Do not apply within one day of harvest.
- Do not graze livestock in treated areas or cut treated crops for feed within 1 day of last application.
- 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.
- Use of LIBERTY BIFEN SC on corn is prohibited in all coastal counties.

COTTON

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
European Corn Borer Soybean	2.3-8.6 fl.	LIBERTY BIFEN SC may be applied in water or refined vegetable oil
(Banded) Thrips Tobacco Thrips	oz./acre	(soybean/cottonseed).
	(0.02-0.10 lb.	Application in Water: Apply in a minimum of 5 gallons per acre with
	ai/acre)	ground equipment or 1 gallon per acre by aircraft. When applying by
Boll Weevil	4.3-8.6 fl.	air, 1 quart of emulsified oil may be substituted for one quart of water
Bollworm	oz./acre	in the finished spray.
Cabbage Looper		
Cotton Aphid	(0.04-0.10 lb.	ULV Application: Apply the labeled rate of LIBERTY BIFEN SC in refined
Cotton Fleahopper	ai/acre)	vegetable oil in a minimum of 1 quart of finished spray per acre with
Cotton Leafperforator Cutworms		aircraft calibrated to give adequate coverage.
Fall Armyworm		
Plant Bugs		To Control Boll Weevil: Apply LIBERTY BIFEN SC at an interval of 3 to 4
Saltmarsh Caterpillar Southern		days until pest numbers are reduced to acceptable levels.
Garden Leafhopper		
Stink Bugs		To Control Mites and Aphids: Apply when pests first appear. Repeat as
Tobacco Budworm		necessary to maintain control but do not exceed maximum application
Whitefly		rates and reapplication intervals listed elsewhere in this section. Apply
Yellowstriped Armyworm		higher label rates once a damaging threshold is established.
Beet Armyworm	5.1-8.6 fl.	
Carmine Spider Mite	oz./acre	
Lygus spp.		
Pink Bollworm	(0.06-0.10 lb.	
Twospotted Spider Mite	ai/acre	

RESTRICTIONS:

- Do not apply more than 0.5 Ib active ingredient per acre per season.
- Do not apply within 14 days of harvest.
- Do not graze livestock in treated areas or cut treated crops for feed.
- Do not make more than 10 synthetic pyrethroid applications (of one product or combinations or products) to a cotton crop in one growing season.

CUCURBITS

Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Gourd, edible Lagenaria spp. (includes hyotan, cucuzza), Luffa spp. (includes hechima, Chinese okra), Momordica spp. (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 spp.), 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 spp.).

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. To control rootworm larvae, apply as a 5 to 7 inch band over an open furrow (T-band), or in-furrow with the seed.

To control wireworm, grubs, and fleabeetle larvae, apply as a 5 to 7 inch band over an open furrow (T-band), or in-furrow with the seed or transplant.

To control army cutworm, cutworm spp, true armyworm and armyworm spp, 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, broadcast to the soil surface or banded over the row.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Cucumber beetle larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm Grubs Flea beetle larvae Army cutworm Cutworm spp. True armyworm Armyworm spp.	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

Restrictions:

- Do not apply more than 0.1 Ib active ingredient per acre per season as an at-plant application.
- Do not apply more than 0.3 Ib active ingredient per acre per season including at-plant plus
- foliar applications of other bifenthrin products.

DRIED BEANS AND PEAS

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

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. Apply as a 5 to 7 inch band over the row on the soil surface, 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed. Apply broadcast to the soil surface for control of Army cutworm, Cutworm spp., True armyworm, or Armyworm spp.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Corn rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Grape colaspis	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08
Wireworm			
Grubs			
Root maggot			
Army cutworm			
Cutworm spp.			
True armyworm			
Armyworm spp.			

Restrictions:

- Do not apply more than 0.1 Ib active ingredient per acre per season as an at-plant application.
- Do not apply more than 0.2 lb active ingredient (17.0 ounces formulated) to peas or 0.3 lb active ingredient (25.5 ounces formulated) to beans per acre per season including at-plant plus foliar applications of other bifenthrin products.

EGGPLANT

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. 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. Apply broadcast to the soil surface for control of Army Cutworm, Cutworm Species, True Armyworm or Armyworm species.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm Grubs Root maggot Army cutworm Cutworm spp. True armyworm Armyworm spp.	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

Restrictions:

- Do not apply more than 0.1 Ib active ingredient per acre per season as an at-plant application.
- Do not apply more than 0.2 Ib active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

HEAD LETTUCE

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. 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. Apply broadcast to the soil surface for control of Army cutworm, Cutworm spp., True armyworm, armyworm spp. or bulb mites.

PEST		USE RATES	
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08
Grubs			
Root maggot			
Lettuce root aphid			
Army cutworm			
Cutworm spp.			
True armyworm			
Armyworm spp.			
Bulb mites			

Restrictions:

• Do not apply more than 0.1 Ib active ingredient per acre per season as an at-plant application.

• Do not apply more than 0.5 Ib active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

LEAFY BRASSICAS, TURNIP GREENS

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

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. 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. Apply broadcast over the soil surface for control of Army cutworm, Cutworm spp., True armyworm or armyworm spp.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08
Grubs			
Root maggot			
Lettuce root aphid			
Army cutworm			
Cutworm spp.			
True armyworm			
Armyworm spp.			
Bulb mites			

Restrictions:

- Do not apply more than 0.1 Ib active ingredient per acre per season as an at-plant application.
- Do not apply more than 0.4 Ib active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

LEAFY PETIOLE VEGETABLES (FOLIAR)

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

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. 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.

PEST	USI	E RATES
	Fluid oz/acre	Pound ai/acre
Cutworms	3.4 to 8.5	0.04 to 0.1
Corn Earworm		
Tobacco		
Budworm		
Saltmarsh Caterpillar		
Leafhoppers		
Flea Beetles		
Imported		
Cabbageworm		
Cucumber Beetles		
Aphids		
Whitefly		
Armyworms		
Loopers		
Stink Bugs		
Crickets		
Ground Beetles		
Thrips		
Wireworm (adults)		
Diamondback Moth		

6.8 to 8.5	0.08 to 0.1
e ingredient per acre per season.	
	e ingredient per acre per season.

- Do not make applications less than 7 days apart.
- Do not apply within 7 days of harvest.

OKRA

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. 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.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Wireworm Armyworm Cutworm Flea beetle larvae	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

Restrictions:

- Do not apply more than 0.1 Ib active ingredient per acre per season as an at-plant application.
- Do not apply more than 0.2 Ib active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

PEANUT* (FOLIAR)

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Beet Armyworms	2.5 to 8.6 fl. oz.	Apply foliar treatments in at least 10 gallons per acre at the rate of
Corn earworm	(0.033 to 0.1 lb.	8.6 fl. oz. (0.1 lb. active ingredient) per acre at a minimum of 14 days
Cucumber Beetles	ai) per acre	intervals.
Cutworm species		
Fall Armyworm		
Grasshoppers		
Green cloverworm		
Leafhoppers		
Lesser Cornstalk Borer		
Loopers		
Rednecked Peanut Worm		
Southern Armyworm		
Southern Corn Rootworm		
Stink Bugs		
Threecornered Alfalfa Hopper		
Velvetbean Caterpillar		
Yellowstriped Armyworm		
Aphids	6.9 to 8.6 fl. oz.	
Spider Mites	(0.08 to 0.1 lb. ai)	
Thrips	per acre	
Whitefly		
RESTRICTIONS:	1	1

• Do not feed green immature plants and peanut hay to livestock.

- Do not apply more than 0.5 Ib active ingredient per acre per season.
- Do not apply within 14 days of harvest.

* Not for use in California.

PEPPERS (BELL and NON-BELL)

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. 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. Apply broadcast over the soil surface for control of Army cutworm, Cutworm spp., True armyworm, Armyworm spp. or Stalk borer.

PEST			
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm Grubs Root maggot Flea beetle larvae Pepper maggot Root aphid Army cutworm Cutworm spp. True armyworm Armyworm spp.	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08
Stalk borer			

- Do not apply more than 0.1 Ib active ingredient per acre per season as an at-plant application.
- Do not apply more than 0.2 Ib active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

ROOT CROPS (FOLIAR)

Apply as directed using the rates in the table below.

СКОР	PEST	RATE	APPLICATION INSTRUCTIONS
Burdock, edible Carrot Celeriac Chervil, turnip rooted Chicory Ginseng Horseradish Parsley, turnip rooted Parsnip Radish Radish, oriental Rutabaga Salsify	Aphids Beet Armyworm Celery leaftier Corn Earworm Cross-Striped Cabbageworm Cutworms Diamondback moth European Corn Borer Fall Armyworm Flea Beetles Green Cloverworms Hornworms Imported Cabbageworm	6.9 to 8.6 fl. oz. (0.08 to 0.10 lb. ai) per acre	Apply foliar treatments in at least 25 gallons per acre.
Salsify, black Salsify, Spanish Skirret Turnip	Loopers Southern Armyworm Spider Mites Tobacco Budworm Velvetbean Caterpillar Whitefly Yellowstriped Armyworm		

RESTRICTIONS:

- Do not make applications less than 7 days apart.
- Do not apply more than 0.5 Ib active per acre per season.
- Do not apply within 21 days of harvest.

Garden Beet	Aphids Flea Beetles Lepidopterous Larvae Spider Mites Whitefly	6.9 to 8.6 fl. oz. (0.08 to 0.10 lb. ai) per acre	Apply foliar treatments in at least 25 gallons per acre.
RESTRICTIONS: • Do not make application	ations less than 7 days apart.		

- Do not apply more than 0.4 lb active ingredient per acre per season.
- Do not apply within 1 day of harvest.

SOYBEANS

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. 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. Apply broadcast over the soil surface for control of Army cutworm, Cutworm spp., True armyworm, or Armyworm spp.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08
Grape colaspis			
Grubs			
Root maggot			
Seedcorn maggot			
Army cutworm			
Cutworm spp.			
True armyworm			
Armyworm spp.			
Seed corn beetle			

Restrictions:

- Do not apply more than 0.1 Ib active ingredient per acre per season as an at-plant application.
- Do not apply more than 0.2 Ib active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

SOYBEANS (PPI & PRE)

For PPI treatments, the 4 to 5.3 fluid oz/A rate must be used. LIBERTY BIFEN SC can be tank mixed and applied with PPI herbicides. Incorporate LIBERTY BIFEN SC no deeper than the intended planting depth and no deeper than 3 inches. Incorporate at a depth close to the intended seed planting depth.

For PRE treatments, apply at the 3.4 fluid oz/A rate and can be tank mixed and applied with PRE herbicides.

PEST	USE RAT	TES
	Fluid oz/acre	Pound ai/acre
Black Cutworm White grub Wireworm	4 to 5.3 Pre-Plant Incorporated (PPI)	0.47 to 0.062 Pre-Plant Incorporated (PPI)
Seed corn Maggot Armyworm spp. Seed corn beetle		
Black Cutworm Armyworm Stalkborer Seed corn beetle	3.4 Pre-Emergence (PRE)	0.04 Pre-Emergence (PRE)

Restrictions:

- Do not apply more than 0.1 Ib active ingredient per acre per season as PPI or PRE application.
- Do not apply more than 0.2 Ib active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

SOYBEAN (FOLIAR)

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Alfalfa Caterpillar Aphids Aster Leafhopper Bean Leaf Beetle Beet Armyworm ¹ Cloverworm Corn Earworm Corn Rootworm Adult Cucumber Beetles Cutworms European Corn Borer Fall Armyworm Flea Beetle Grasshoppers Imported cabbageworm Japanese Beetle Adult Leafhoppers Leafminer Loopers Mexican Bean Beetle Adult Pea Leaf Weevil Pea Weevil Plant Bug Saltmarsh caterpillar Sap Beetle Southern Armyworm Stink Bugs Tarnished Plant Bug	2.8 to 8.6 fl. oz. (0.033 to 0.1lb. ai) per acre	Apply as a foliar treatment using at least of 10 gallons per acre at the rate of 8.6 fl. oz. (0.1 lb.) per acre at a minimum of 30 day intervals. ¹ Pyrethroid resistance is common for Beet Armyworm and Tobacco Budworm. Consult your local or state agricultural authority to determine if resistant pest populations are in your area. If so refer to the Resistance Management statement in the Directions For Use section of this label.

Thrips	
Tobacco budworm ¹	
Webworms	
Western Bean Cutworm	
Whitefly	
Yellowstriped Armyworm	
Lygus Species	6.9 to 8.6 fl. oz.
Whitefly	(0.08 to 0.10 lb. ai)
Two-Spotted Spider Mite	per acre
RESTRICTIONS:	
• Do not apply more than 0	O lle e etil ve in ene elient ne

- Do not apply more than 0.3 Ib active ingredient per acre per season.
- Do not apply within 18 days of harvest.

SPINACH

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. Apply broadcast to the soil surface for control of Army cutworm, Cutworm spp., True armyworm, or Armyworm spp.

PEST	USE RATES			
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre	
Rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1	
Wireworm	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08	
Grubs				
Root maggot				
Seedcorn maggot				
Army cutworm				
Cutworm spp.				
True armyworm				
Armyworm spp.				

Restrictions:

- Do not apply more than 0.1 Ib active ingredient per acre per season as an at-plant application.
- Do not apply more than 0.4 Ib active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

SPINACH (FOLIAR)

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Armyworms	2.8 to 8.6 fl. oz.	Apply the specified dosage in 5-50 gallons of finished spray per acre
Colorado Potato Beetle	(0.033 to 0.10 lb. ai)	by air or 10-50 gallons of finished spray per acre by ground.
Corn Earworm	per acre	
Cucumber Beetles		For control of Whiteflies, apply foliar treatments of LIBERTY BIFEN
Cutworms		SC by ground or air at rates of up to 0.5 pt. (0.1 lb active) per acre at
European Corn Borer		minimum 7-day intervals up to a maximum of 4 applications.
Flea Beetles		
Leafminers		
Loopers		
Pepper Weevil		
Thrips		
Tomato Pinworm		
Tomato Hornworm		
Whitefly		
Banks Grass Mite	6.9 to 8.6 fl. oz. (0.08	
Broad Mite	to 0.10 lb. ai) per	
Carmine Mite	acre	
Lygus species		
Pacific Spider Mite		
Twospotted spider mite		

RESTRICTIONS:

- Do not make applications less than 7 days apart.
- Do not apply more than 0.4 Ib active ingredient per acre per season.
- Do not apply within 40 days of harvest.

SUCCULENT PEAS AND BEANS

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

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. 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. Apply broadcast over the soil surface for control of Army cutworm, Cutworm spp., True armyworm, or Armyworm spp.

	USE RATES			
PEST	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre	
Rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1	
Wireworm	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08	
Grape colaspis				
Grubs				
Root maggot				
Seedcorn maggot				
Army cutworm				
Cutworm spp.				
True armyworm				
Armyworm spp.				

Restrictions:

- Do not apply more than 0.1 Ib active ingredient per acre per season as an at-plant application.
- Do not apply more than 0.2 Ib active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

TOBACCO (PRE-TRANSPLANT and AT-TRANSPLANT)

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below.

Pre-transplant soil applications:

Use of suitable equipment to incorporate into top 4" of the soil is required to control below ground pests.

At-transplant water treatment application:

Apply 0.0625 to 0.1 pound ai/A in a water treatment application volume of 10 to 200 gal/A.

PEST	USE RATES			
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre	
Cutworm spp. Flea beetle larvae White grubs Wireworm Mole cricket Armyworm spp. Stalkborer	3.4 to 8.5	0.2 to 0.49	0.04 to 0.1	
Restrictions: • Do not apply more than 0.	2 Ib active ingredient per acre pe	r season.		

• Do not apply later than layby.

• May be tank mixed with herbicides approved for tobacco use.

TOBACCO (FOLIAR)

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. Apply 0.04 to 0.10 Ib ai/A per foliar application up to, and including, layby in a minimum of 10 gal/A. Do not make more than 2 foliar applications per season.

PEST	USE F	RATES
	Fluid oz/acre	Pound ai/acre
Aphid spp.*	3.4 to 8.5	0.04 to 0.1
Armyworm spp.		
Chinch bugs		
Cutworm spp.		
Flea beetle (Adults)		
Grasshoppers		
Green bugs		
Japanese beetles		
Stink Bugs		
Thrips		
White flies		
Tarnished plant bugs		
Hornworm	6.8 to 8.5	0.08 to 0.1
Tobacco Budworm		
Spider mites	8.5	0.1
Lygus spp.		

- Do not apply more than 0.2 Ib active ingredient per acre per season.
- Do not apply later than layby.
- May be tank mixed with herbicides approved for tobacco use.
- *See resistance management statement under "Directions for Use" section.

TOMATOES

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. 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. Apply broadcast to the soil surface for control of Army cutworm, Cutworm spp., True armyworm, Armyworm spp. or Stalkborer.

	USE RATES		
PEST	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08
Grubs			
Root maggot			
Flea beetle larvae			
Army cutworm Cutworm			
spp.			
True armyworm			
Armyworm spp.			
Stalkborer			

Restrictions:

- Do not apply more than 0.1 Ib active ingredient per acre per season as an at-plant application.
- Do not apply more than 0.32 Ib active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

TUBEROUS AND CORM VEGETABLES (AT-PLANT)

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.

When applied as directed, LIBERTY BIFEN SC will provide control of the pests listed in the table below. Apply LIBERTY BIFEN SC as a soil incorporated broadcast, directed bed spray or a T-band spray into the planting furrow for the control of wireworms, rootworms, sweet potato flea beetle and white grubs. Apply LIBERTY BIFEN SC 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.

PEST	USE F	RATES
	Fluid oz/acre	Pound ai/acre
Wireworms Grape colaspsis White grub Sweet potato flea beetle Rootworms	12.75 to 25.5	0.15 to 0.3

Restrictions:

• Do not apply more than 0.3 Ib active ingredient per acre per season as an at-plant application.

• Do not apply more than 0.5 Ib active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

TUBEROUS AND CORM VEGETABLES (LAY-BY)

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.

When applied as directed, LIBERTY BIFEN SC will provide control of the following pests listed in the table below. Apply LIBERTY BIFEN SC as one or more soil directed and incorporated treatments at cultivation or lay-by for the control of wireworms, rootworms and white grubs. Apply LIBERTY BIFEN SC to the drill area and incorporate by cultivation equipment set to throw soil towards the drill area. Apply LIBERTY BIFEN SC at a rate of 0.15 to 0.3 pound active ingredient (12.75 to 25.5 fluid ounces formulated) per acre in a minimum of 10 gallons per acre of spray.

	USE RATES	5
PEST	Fluid oz/acre	Pound ai/acre
Wireworms Grape colaspsis White grub Rootworms	12.75 to 25.5	0.15 to 0.3

Restrictions:

• Do not apply more than 0.5 Ib active ingredient per acre per season including soil plus foliar applications of other bifenthrin products.

TUBEROUS AND CORM VEGETABLES (FOLIAR)

Apply as directed using the rates in the table below.

CROP	PEST	APPLICATION INSTRUCTIONS
Potato	Corn wireworm	Foliar Application: Apply LIBERTY BIFEN SC to control the
Sweet potato	Tobacco wireworm	adult life stages of flea beetles, click beetles (wireworms),
Arracacha	Southern potato wireworm	cucumber beetles (rootworms), Whitefringed beetles and
Arrowroot	Japanese beetle grubs	May/June beetles (White grubs). Apply at the rate of 0.1 lbs.
Chinese artichoke	June beetle	active ingredient (8.6 ounce formulated product) per acre in
Jerusalem artichoke	Sweetpotato flea beetle	10 gallons of spray by ground equipment and 3 gallons of
Edible canna	Cucumber beetle	spray by air.
Cassava (bitter & sweet)	Sweetpotato Weevil	
Chayote (root)	Banded Cucumber Beetle	
Chufa	Black flea beetle	
Dasheen (taro)	Whitefringed beetle	
Ginger	White grub	
Leren	Sugarcane beetle	
Tanier	Rootworms	
Turmer		
Yam bean		
True yam		
RESTRICTIONS:		
• Do not make more than 2	foliar applications per season no	sooner than 21 days anart

• Do not make more than 2 foliar applications per season no sooner than 21 days apart.

• Do not apply more than 0.5 lb active ingredient per acre per season, including soil application.

• Do not apply within 21 days of harvest.

APPLICATIONS INSTRUCTIONS – ORNAMENTALS*

NON-AG USE: INTERIORSCAPES AND PLANTSCAPES, LAWNS, TREES AND SHRUBS, AND ON GOLF COURSES AG USE: ORNAMENTALS AND TREES (INCLUDING FIELD AND CONTAINER GROWN NURSERY STOCK, CHRISTMAS TREES), Nurseries, Conifers (field and container grown), and pine seed orchards

* 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).

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.

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 spray 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 except as a spot or crackand-crevice treatment.
- 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.

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 underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
- 4. Applications around potential exterior pest entry points into man-made structures such as doorways and windows, when limited to a band not to exceed one inch;
- 5. 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;
- 6. 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.).

Crack and crevice treatments: Treat surfaces to ensure thorough coverage but avoid runoff.

To treat insects harbored in voids and cracks-and-crevices, applications must be made in such a manner to limit dripping and avoid runoff onto untreated structural surfaces and plants.

PRODUCT INSTRUCTIONS

LIBERTY BIFEN SC 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, including 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 365 days after application.

LIBERTY BIFEN SC may be tank-mixed with other products, including insect growth regulators. When tank mixing LIBERTY BIFEN SC with other products observe all precautions and limitations on each separate product label. 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 addition of spreader stickers is not necessary. The physical compatibility of LIBERTY BIFEN SC may vary with different sources of pesticide products, and local cultural practices. Any tank mixture which has not been previously tested should be prepared on a small scale (pint or quart jar), using the proper proportions of chemicals and water to ensure the physical compatibility of the mixture.

Follow this procedure 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.

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 beetles such as	21 - 43 fl. oz.	Use 1-4 gallons of	Make applications to the trunk of the
mountain pine beetle, southern	per 100 gallons	finished spray per	tree with a hydraulic sprayer in the
pine beetle, western pine beetle,	(0.25 – 0.5 lb. Al	tree.	early spring or prior to adult beetle
and black turpentine beetle.	per 100 gallons)		flight and tree infestation.
Engraver beetle (<i>Ips</i> spp.)	21 - 43 fl. oz.	Use 10-14 gallons of	Apply spray directly to the main trunk
	per 100 gallons	finished spray per	from the base of the tree to at least
	(0.25 – 0.5 lb. Al per	tree.	half-way into the live crown. Spray
	100 gallons)		until the bark is thoroughly wet.
Other bark beetles such as	21 - 43 fl. oz.	Use 2-5 gallons of	Make applications of a spray mixture
ambrosia beetles, elm bark beetles,	per 100 gallons	finished spray per	to the trunk, scaffolding and limbs of
and metallic wood borers such as	(0.25 – 0.5 lb. Al per	tree.	the tree with a hydraulic sprayer in the
emerald ash borer.	100 gallons)		early spring or prior to adult beetle
			flight and tree infestations. Spray until
			the bark is thoroughly wet.
Clearwing moth borers	8.6 – 17.2 fl. oz.	Use 1-4 gallons of	Apply to the branches and trunks prior
such as ash borer, banded ash	per 100 gallons	finished spray per	to adult emergence. Spray until the
clearwing, dogwood borer, lesser	(0.1 – 0.2 lb. Al per	tree.	bark is thoroughly wet. For maximum
peachtree borer, lilac borer, oak	100 gallons)		residual control, use highest
borer, peachtree borer,			recommended rate.
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 LIBERTY BIFEN SC 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. Al (19.4 fl. oz.) of this product to trees per acre.

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 0.06 to 0.44 fl. oz. LIBERTY BIFEN SC per 1,000 sq. ft. or 2.4 to 19.4 fl. oz. per 100 gallons. LIBERTY BIFEN SC 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. LIBERTY BIFEN SC 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 1,000 sq

Calculating Dilution Rates Using the Ornamental Application Rates Table and the LIBERTY BIFEN SC 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 should be 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.

		LIBERTY B	IFEN SC ORNAM	MENTAL DILUTIO	ON CHART		
Application	F	luid Ounces (m	L) of LIBERTY B	FEN SC diluted t	o the Volumes	of Finished Spra	iy
Rate	1 Ga	1 Gallon 5 Gallons 10 Gallons 1				100 Gallons	
Fl. oz./1,000	Fl. oz.	mL	Fl. oz.	mL	Fl. oz.	mL	Fl. oz.
sq. ft.							
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

(17.15)(Fl. Oz. of LIBERTY BIFEN SC added to tank) = 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 excellent 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. The higher labeled application rates should be used when maximum residual control is desired.

PEST	RATES	USE INSTRUCTIONS
Bagworms ¹	0.06 – 0.12 fl. oz. per 1,000	¹ Bagworms: For best results, apply when larvae
Cutworms	sq. ft.	begin to hatch and spray larvae directly.
Elm Leaf Beetles		Applications when larvae are young will be most
Fall Webworms	(1.8 – 3.8 fl. oz. per 100	effective.
Gypsy Moth Caterpillars	gallons)	
Lace Bugs		² Beetles, Scale Crawlers, Twig Borers, and Weevils:
Leaf Feeding Caterpillars		May treat trunks, stems and twigs in addition to
Tent Caterpillars		plant foliage.
Tussock moth		
Adelgids	0.12 – 0.20 fl. oz. per 1,000	³ Spider Mites: LIBERTY BIFEN SC provides optimal
Ants (Excluding fire, carpenter,	sq. ft.	twospotted spider mite control when applied
harvester, and pharaoh ants)		during spring to mid-summer. Higher labeled
Aphids	(3.6 – 7.2 fl. oz. per 100	application rates and/or more frequent treatments
Bees	gallons)	may be required for acceptable twospotted spider
Beet Armyworm		mite control during mid- to late-summer. The
Beetles ²		addition of a surfactant or horticultural oil may
Black Vine Weevil (Adults)		increase the effectiveness of this product.
Scales, such as		Combinations of this product with other registered
Brown Soft Scales		miticides have also proven effective. Alternately,
California Red Scale (Crawlers) ²		LIBERTY BIFEN SC applications may be rotated with
Elongated Hemlock Scale		those of other products that have different modes
Pine Needle Scales (crawlers) ²		of action in control programs that <i>are</i> designed to
San Jose Scales (Crawlers) ²		manage resistance by twospotted spider mites.
Broad Mites		Consult your local Cooperative Extension Service
Budworms		for resistance management recommendations in
Cicadas		your region.
Citrus Thrips		
Clover Mites		
Crickets		
Earwigs		
European Red Mite		
Flea Beetles		
Fungus Gnats (Adults)		
Glassywinged Sharpshooter		
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Japanese Beetle (Adult)	
Leafhoppers	
Leafrollers	
Mealybugs	
Mites	
Nantucket Pine Tip Moth	
Pillbugs	
Pine sawflies	
Plant Bugs (including <i>Lygus</i> spp.)	
Psyllids+	
Spider Mites ³	
Spittlebugs	
Thrips	
Tip Moths	
Treehoppers	
Twig Borers ²	
Weevils ² such as	
White Pine Weevil	
Pales Weevil	
Diaprepes adults	
Orchid Weevil	
White flies	
Zimmerman pine moths	
Leafminers 0.20 – 0).44 fl. oz. per 1,000
Pecan Leaf Scorch Mite	sq. ft.
Pine Shoot Beetle (Adults)	
Spider Mites ³ (7.2 – 2	14.4 fl. oz. per 100
	gallons)

STORAGE AND DISPOSAL

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

Do not pour or dispose down-the-drain or sewer. Call your local solid waste agency for local disposal options.

Pesticide Storage

DO NOT STORE BELOW 40 °F.

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (Transportation and Spills): (800) 424-9300.

To confine spill: Dike surrounding area or absorb with sand, cat litter or commercial clay. Place damaged package in a holding container. Identify contents.

Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

Container Handling

Non-refillable container (in sizes 5 gallons or less) - Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds, pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times Then offer for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Do not cut or weld metal containers.

Non-refillable container (in sizes greater than 5 gallons) - Do not reuse or refill this container. Triple rinse or pressure rinse. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. **Returnable/Refillable Containers:** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposal, empty the remaining contents into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate. Cleaning revise the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of LIBERTY CROP PROTECTION LLC or Seller, TO THE EXTENT CONSISTENT WITH APPLICABLE LAW All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold LIBERTY CROP PROTECTION LLC and Seller harmless for any claims relating to such factors.

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