UNITED STATES	US ENVIRONMENTAL PROTECTION AC Office of Pesticide Programs	GENCY	EPA Number 89168 19	Date of Issuance DEC 5 2012	
A AGENCY	Registration Division (H7505C) 1200 Pennsylvania Avenue N W Washington D C 20460		Term of Issuance Unconditional		
WAL PROTECT			Name of Pesticide Product		
(Under FIFRA as amended)	FIFRA as amended)			Liberty Bifenthrin 2 EC Insecticide/Miticide	
Name and Address of Registrat Liberty Crop Protect 3937 Cedarwood Lat Johnstown CO 805.	ion LLC ne 34	1			
	ring insubstance from that accepted in connection with the solid the label in commerce. In any correspondence on the nished by the registrant the above named pesticide is here	a starter algo	这些现在,我们 有一个的是一个的		
environment the Administrator	construed as an endorsement or recommendation of this p r on his motion may at any time suspend or cancel the re n the registration of a product under this Act is not to be car red by others	gistration of a	esticide in accordance v	with the Act The acceptance	
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- 2 Within one year from the date of this notice submit the results of an one year storage stability data (guideline 830 6317) and corrosion characteristics (guideline 830 6320) studies for 0 3 6 9 and 12 month intervals
- 3 Per 40 CFR 156 10(a)(6) submit one copy of your final printed labeling before releasing the product for shipment As defined in 40 CFR 152 3 final printed labeling means the label or labeling of the product when distributed or sold Clearly legible reproductions or photo reductions will be accepted for unusual labels Note that a clean copy of the master label in most cases does not meet the definition of final printed labeling If these conditions are not complied with the registration will be subject to cancellation in accordance with FIFRA section 6(e) Your release for shipment of the product bearing amended labeling constitutes acceptance of these conditions A stamped copy of the label is enclosed for your records

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

LIBERTY BIFENTHRIN 2 EC Insecticide/Miticide

LIBERTY BIFENTHRIN 2 EC IS NOT FOR SALE OR USE IN CALIFORNIA

[For use to control listed insects and mites on artichokes beans brassicas caneberries canola cilantro citrus coriander corn cotton crambe cucurbits dried beans and peas eggplant head lettuce hops leafy brassicas okra pears peas peppers rapeseed spinach tobacco tomatoes and tuberous and corm vegetables]

[For use 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 and Sod Farms)]

[DO NOT APPLY THIS PRODUCT ON GOLF COURSES AND SOD FARMS IN NASSAU OR SUFFOLK COUNTY NEW YORK]

[<PRODUCT NAME> contains Bifenthrin the active ingredient used in <BRAND NAME>™ or ®] [<PRODUCT NAME> is not manufactured or distributed by <BASIC REGISTRANT / BRAND HOLDER> seller of <BRAND>™ or ®] [<BRAND>™ or ® is a trademark of <TRADEMARK HOLDER>>]

ACTIVE INGREDIENT	/ BY WT
Bifenthrin (2 methyl[1 1 –biphenyl] 3 yl)methyl 3 (2 chloro 3 3 3	ACCEPTED
trifluoro 1 propenyl) 2 2 dimethyl cyclopropanecarboxylate	250/ with COMMENTS
OTHER INGREDIENTS	750% In EPA Letter Dated
TOTAL	100 0% DEC 5 2012
	Under the Federal Insecticide
Cis isomers 97% minimum trans isomers 3% maximum	Fungicide and Rodenticide Act
**Contains xylene range aromatic solvents	as amended for the pesticide
This product contains 2 pounds active ingredient per gallon	registered under EPA Reg. No
The product contains 2 pounds active ingroutent per gallon	01168-19

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)

[See [side] [other] [inside label booklet] [panel] for additional precautionary state in ents]

EPA Reg No 89168 LIBERTY CROP PROTECTION LLC 3937 CEDARWOOD LANE JOHNSTOWN CO 80534

080812

EPA Est No

Net Contents ____Gal (____L)

FIRST AID IF SWALLOWED Immediately call a poison control center or doctor Do not induce vomiting unless told to do so by a poison control center or doctor • Do not give any liquid to the person • 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 eve • Call a poison control center or doctor for treatment advice • IF ON SKIN OR Take off contaminated clothing . CLOTHING Rinse skin immediately with plenty of water for 15 20 minutes . Call a poison control center or doctor for treatment advice IF INHALED Move person to fresh air If person is not breathing call 911 or an ambulance then give artificial respiration preferably by mouth to mouth if possible Call a poison control center or doctor for further treatment advice • 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 should be avoided This product contains a petroleum distillate vomiting may cause aspiration pneumonia

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center doctor or going for treatment For emergency information concerning this product call the National Pesticides Information Center (NPIC) at 1 800 858 7378 seven days a week 6 30 am to 4 30 pm Pacific Time (NPIC Web site <u>www npic orst edu</u>) Outside of these times call your poison control center at 1 800 222 1222

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

May be fatal if swallowed Causes substantial but temporary eye injury Do not get in eyes or on clothing Wear protective eyewear (goggles face shield or safety glasses) Harmful if inhaled or absorbed through skin. Avoid breathing vapor or spray mist. Avoid contact with skin. Wash thoroughly with soap and water after handling and before eating drinking chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below If you want more options follow the instructions for category E on an EPA chemical resistance category selection chart

Handlers who may be exposed to the dilute through application or other tasks must wear

- · Long sleeved shirt and long pants or coveralls worn over short sleeved shirt and short pan s
- Chemical resistant gloves such as barrier laminate nitrile rubber neoprene rubber cr viton
- Chemical resistant footwear plus socks

Handlers who may be exposed to the concentrate through mixing, loading, application, or other tasks must wear

- Long sleeved shirt and long pants
- Chemical resistant gloves such as barrier laminate nitrile rubber neoprene rubber or viton
- Chemical resistant footwear plus socks
- Protective eyewear
- Chemical resistant apron when mixing and loading and cleaning equipment

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

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USER SAFETY RECOMMENDATIONS

Users should

- Wash hands before eating drinking chewing gum using tobacco or using the toilet
- Remove clothing immediately if pesticide gets inside Then wash thoroughly and put on clean clothing
- Remove PPE immediately after handling this product Wash outside of gloves before removing As soon as possible wash thoroughly and change into 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 while bees are actively visiting the treatment area

The use of LIBERTY BIFENTHRIN 2 EC 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/CHEMICAL HAZARDS

Do not use or store near heat or open flame

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons either directly or through drift Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170 This Standard contains requirements for the protection of agricultural workers on farms forests nurseries and greenhouses and handlers of agricultural pesticides. It contains requirements for training decontamination notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The equirements 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 nitrile rubber neoprene rubber or Viton and 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 Protections Standards for agricultural pesticides (40 CFR Part 170) The WPS applies when this product is used to produce agricultural plants on farms forests nurseries and greenhouses

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

RESISTANCE MANAGEMENT

Some insects are known to develop resistance to products used repeatedly for control Because the development of resistance cannot be predicted the use of this product should conform to resistance management strategies established for the use area Consult your local or state agricultural authorities for details

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

APPLICATIONS INSTRUCTIONS – FOOD CROPS

Application rates will vary according to pest pressure timing of sprays and field scouting. Use lower rates under light to moderate infestations and higher rates under heavy insect pressure and for mite control. And climates generally require higher rates.

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.

CHEMIGATION USE DIRECTIONS

Apply this product only through sprinkler including center pivot lateral move end tow side (wheel) roll traveler big gun solid set or hand move irrigation systems' Do not apply this product through any other type of irrigation system

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system

For LEPA irrigation a minimum of 0 75 inch of water per acre is recommended. Where non emulsified oils are used as the diluent 1 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 area

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 function interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected

Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock Page 4 of 34

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Do not apply when wind speed favors drift beyond the area intended for treatment

LIBERTY BIFENTHRIN 2 EC should be applied continuously for the duration of the water application LIBERTY BIFENTHRIN 2 EC should be diluted in sufficient volume to ensure accurate application over the area to be treated When using chemigation a minimum of 0.5 inch per acre of irrigation water is recommended Agitation generally is not required when a suitable diluent is used A diluent test should be conducted to ensure that phase separation will not occur during dilution and application Failure to achieve a uniform dilution throughout the time of application may result in undesirable residues or less than desirable control

BUFFER ZONES

Vegetative Buffer Strip

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

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

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

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

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

Buffer Zone for ULV Aerial Application

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

Buffer Zone for Non ULV Aerial Application

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

SPRAY DRIFT REQUIREMENTS

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES RESERVOIRS RIVERS PERMANENT STREAMS MARSHES OR NATURAL PONDS ESTUARIES AND COMMERCIAL FISH FARM PONDS

Do not apply by ground equipment within 25 feet or by air within 150 feet of lakes reservoirs rivers permanent streams narshes or natural ponds estuaries and commercial fish farm ponds Increase the buffer zone to 450 feet when ultra low volume (ULV) application is made in cotton. Use of ultra low volume (ULV) application on corn and hops is prohibited.

Wind Direction and Speed

Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area

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

Temperature Inversion

Do not make aerial or ground applications into temperature inversions

Inversions are characterized by stable air and increasing temperatures with height above the ground Mist or fog may indicate the presence of an inversion in humid areas The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface

Do not make aerial or ground applications to corn if heavy rainfall is imminent

Droplet Size

Use only Medium or coarser spray nozzles (for ground and non ULV aerial application) according to ASAE (S572) definition for standard nozzles. Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas. In conditions of low humidity and high temperatures applicators should use a coarser droplet size

Formation of very small droplets may be minimized by appropriate nozzle selection by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure

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Ground Applications

For ground applications wind speed must be measured adjacent to the application site on the upwind side immediately prior to application

For ground boom applications apply using a nozzle height of no more than 4 feet above the ground or crop canopy For airblast applications turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize

spray loss over the top in orchard applications spray must be directed into the canopy

Aerial Applications

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

Flight speed and nozzle orientation must be considered in determining droplet size

Spray must be released at the lowest height consistent with pest control and flight safety Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety

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

ROTATIONAL CROPS

Crops with existing bifenthrin tolerances may be rotated at any time All other crops may be rotated 30 days following the final application of LIBERTY BIFENTHRIN 2 EC

TANK MIXTURES

LIBERTY BIFENTHRIN 2 EC may be applied in tank mixtures with other products approved for use on registered crops Observe all restrictions and precautions which appear on the labels of these products Test for compatibility of products before mixing

INDEX TO CROPS LISTED ON THIS LABEL

CROP

PAGE

Artichoke Brassica Crops Caneberries Canola Crambe Rapeseed Cilantro Coriander Citrus (Not for this use in Florida) **Dried Beans and Peas** Field Corn (Grain and Silage) Popcorn Field Corn Grown for Seed (At Plant Use) Field Corn (Grain and Silage) Popcorn Field Corn Grown for Seed (PRE & PPI) Field Corn (Grain and Silage) Popcorn Field Corn Grown for Seed (Foliar Use) Sweet Corn (Grain and Silage) Sweet Corn Grown for Seed (At Plant Use) Sweet Corn (Grain and Silage) Sweet Corn Grown for Seed (Foliar Use) Cotton Cucurbits Eggplant Grapes Hops Leafy Brassicas Lettuce Head Okra Pears Peppers Bell and Non Bell Spinach Succulent Peas and Beans Tobacco Page 6 of 34 Bracketed Text [] Optional Marketing Statements

Tomatoes Tuberous and Corm Vegetables

Ornamentals and Trees (including Field and Container Grown Nursery Stock Christmas Trees Interiorscapes and Plantscapes Lawns Trees and Shrubs and on Golf Courses and Sod Farms)

FOOD CROP USE INSTRUCTIONS

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ARTICHOKE

Apply as directed at a rate of 6 4 fl oz (0 1 lb ai) per acre

PEST	APPLICATION INSTRUCTIONS	
Artichoke Plume Moth Cribrate Weevil	Apply when pest population reaches damaging threshold and repeat as necessary to maintain control but not apply 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 rate in a minimum of 10 gallons per acre	
RESTRICTIONS		
Do not exceed 0 5 lb a	per acre per season	
A 5 day preharvest inte		

BRASSICA CROPS

CROP	PEST/RATE	APPLICATION INSTRUCTIONS
Head and Stem Brassica	PESTS	Apply in a minimum of 2 gallons of
Vegetables including	Cutworms	finished spray per acre by air or in a
Dest	Corn Earworm	minimum of 10 gallons per acre with
Broccoli Chinoso Broccoli (goilon White	Tobacco Budworm	ground equipment
Chinese Broccoli (gailon White flowering broccoli)	Saltmarsh Caterpıllar Leafhoppers	Whey applying by air 1 to 2 quarts of
Brussels sprouts	Fiea Beetles	emulsified oil may be substituted for 1 to
Cauliflower	Imported Cabbageworm	2 quarts of water in the finished spray
Cavalo broccoli	Cucumber Beetles	- +
Kohirabi	Whitefly	Thorough coverage is essential to
Cabbage	Armyworms	achieve control
Chinese Cabbage (napa) Chinese	Loopers	
Mustard Cabbage	Stink Bugs	
(gai choy)	Crickets Ground Beetles	
	Thrips	
	Wireworm (adults)	
	Diamondback Moth	
	RATE	
	2 1 to 6 4 fl oz /acre	
	(0 033 to 0 1 lb ai/acre)	
	PESTS Banks Grass Mite	
	Twospotted Spider Mite	
	Carmine Mite	

	((10 36
	Pacific Spider Mite Lygus spp		
	RATE 5 12 to 6 4 fl oz /acre (0 08 to 0 1 lb aı/acre)		
RESTRICTIONS Do not apply more than 0 5 II Do not make more than 5 ap Do not make applications les Do not apply within 7 days of	o active ingredient (1 quart) per acre per plications after bloom s than 7 days apart	season	

CANEBERRIES

Apply as directed using the rates in the table below

CROP	PEST/RATE	APPLICATION INSTRUCTIONS
Caneberries	PESTS	Apply by air or ground equipment using sufficient water to
including	Leafrollers	obtain full coverage of foliage (minimum of 10 gallons per acre
	Orange Tortrix	by air and 50 gallons per acre by ground)
Blackberries	Root Weevils	
Bingleberries		One application may be made pre bloom and a second
Dewberries	RATE	application may be made post bloom
Lowberries	3 2 to 6 4 fl oz /acre	
Marionberries	(0 05 to 0 1 lb al/acre)	For Crown Borer apply 0 1 lb ai per acre post harvest (fall)
Olallieberries		or pre bloom (spring) as a drench application directed at the
Youngberries	PEST	crown of plants in a minimum of 200 gallons of water per acre
Loganberries	Spider Mites	Greater efficacy is observed at higher water gallonages (up to
Raspberries	Raspberry Crown Borer	400 gallons) or in an application prior to a significant rainfall event Do not make both pre bloom foliar and pre bloom
	RATE	drench applications
	6 4 fl oz /acre	
	(0 1 lb al/acre)	

Do not apply within 3 days of harvest Do not exceed 0 2 lb ai per acre per season

CANOLA, CRAMBE RAPESEED Apply as directed at a rate of 2 1 to 2 6 fl oz (0 033 to 0 04 lb ai) per acre

PEST	APPLICATION INSTRUCTIONS
Aphids Armyworms Cutworms	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
Diamondback Moth Loopers Other Lepidopterous Larvae Lygus Bugs	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
Flea Beetle Flea Hopper	Thorough coverage is essential to achieve control
Grasshoppers Plant Bugs Stink Bugs	
Seedpod Weevil Thrips	
Whitefly RESTRICTIONS	

CILANTRO, CORIANDER

Apply as directed using the rates in the table below

PEST	RATE	APPLICATION INSTRUCTIONS	
Aphids Beet Armyworm Cabbage Looper Cutworm Flea Beetle Grasshoppers Leafminer Saltmarsh caterpillar Spotted Cucumber Beetle Thrips Whitefly	2 1 to 6 4 fl oz (0 033 to 0 1 lb aı) per acre	Apply using sufficient water to obtain uniform coverage Apply as needed 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	5 12 to 6 4 fl oz (0 08 to 0 1 lb aı) per acre		
RESTRICTIONS Do not make applications less than 7 days apart Do not apply more than 0 5 pound active ingredient per acre per season Do not apply within 3 days of harvest			

CITRUS

The use of LIBERTY BIFENTHRIN 2 EC protects citrus tree roots from **Diaprepes** and other citrus root weevil feeding by creating a barrier As citrus root weevil eggs hatch the newly hatched larvae (neonates) fall to the soil surface beneath the tree and come into contact with LIBERTY BIFENTHRIN 2 EC as they attempt to burrow into the root zone Disturbance of the soil beneath the tree should be minimized

Timing of application is very important Peak emergence of **Diaprepes** adults varies by citrus growing region and environmental factors such as soil moisture can affect emergence Usually two peaks occur for **Diaprepes** first in the spring then late summer or early fall **Southern Blue Green and Blue Green Citrus Weevils** and **Fuller Rose Beetle** usually have a single emergence peak in the spring **Brown** and **Little Leaf Notchers** usually have three emergence peaks spring summer and fall. Since emergence varies by region and season the best way to time application is to observe the adults. By trapping adults when they are most active (in the morning or and late afternoon) during the spring and summer emergence periods an estimation of numbers can be obtained. Eggs are laid 8 to 10 weeks following the adult emergence from the soil larvae invasion into the soil will begin 2 to 3 weeks following adult emergence. LIBERTY BIFENTHRIN 2 EC must be applied prior to the dropping of the neonates. Consult local university extension personnel for current information to protect citrus trees from **Citrus Root Weevils** and other pests.

		APPLICATION INSTRUCTIONS
Diaprepes Root Weevil (Diaprepes abbreviatus) Southern Blue Green Citrus Root Weevil (Pachnaeus litus) Blue green Citrus Root Weevil (Pachnaeus opalus) Brown Leaf Notcher (Epicaerus mexicanus)	16 to 32 fl oz (0 25 to 0 5 lb aı) per acre	Apply LIBERTY BIFENTHRIN 2 EC by ground equipment to bare soil beneath citrus trees LIBERTY BIFENTHRIN 2 EC must be uniformly applied from the trunk to the drip line of the 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 Apply to individual citrus resets when not in solid planted rows using hand gun or shielded sprayer
Little Leaf Notcher (<i>Artipus floridanus</i>)		Peak emergence of Diaprepes Root Weevil generally occurs in the spring Depending on weather conditions a minor emergence may also occur in the fail
Fire Ant <i>(Solenopsis</i> spp <i>)</i> Asian Cockroach	6 4 to 16 fl oz (0 1 to 0 25 lb aı) per acre	If the citrus grove to be treated is in an area where weather conditions are conducive to primary emergence occurring in the spring 32 fl oz formulated product should be used to obtain best results
(Blattelia asahinae)		If the citrus grove to be treated is in an area where weather conditions will promote more than one peak pest emergence 16 fl oz formulated product can be applied early season and 16 fl oz formulated product can be applied later in the season
		Follow spray drift precautions on this label
RESTRICTIONS	· · · · · · · · · · · · · · · · · · ·	
Do not apply through irrigation Do not allow any application of		IRIN 2 EC to contact fruit or foliage
	2 of LIBERTY BIFEN	ITHRIN 2 EC (0 5 lb ai) per acre per year

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Apply the specified dosage in a minimum of 40 gallons of finished spray per acre

Ground application only Do not apply by air

Do not apply within 1 day of harvest

FIELD CORN (GRAIN AND SILAGE) POPCORN FIELD CORN GROWN FOR SEED (AT PLANT USE)

PEST	RATE	APPLICATION INSTRUCTIONS
Corn Rootworm Larvae (Northern Southern Western) Army Cutworm Cutworm Species Grubs Seed Corn Beetle Seed Corn Maggot	0 30 fl oz (0046 lb aı) per 1 000 linear feet of row 0 15 to 0 30 fl oz (0023 to 0046 lb aı) per 1 000 linear feet of row	Apply as a 5 to 7 inch T band treatment over an open seed furrow Position the spray nozzle behind the planter shoe in front of the press wheel centered over the row Use the table below to determine the LIBERTY BIFENTHRIN 2 EC needs per acre Apply in a minimum of 3 gallons of finished spray per acre
True Armyworm or Armyworm Species Wireworms		following manner Fill the spray tank approximately one half full with water or liquid fertilizer add the proper amount of LIBERTY BIFENTHRIN 2 EC then add the rest of the water or fertilizer Provide sufficient agitation during mixing and application to maintain a uniform spray mixture Applications of LIBERTY BIFENTHRIN 2 EC alone or in recommended tank mixtures in conjunction with in furrow pop

peri EC	up fertilizers may be used A jar compatibility test should be performed with the appropriate ratio of LIBERTY BIFENTHRIN 2 EC and fertilizer to ensure mixture will stay in solution Constant agitation should be maintained during mixing and application			
RESTRICTIONS Do not apply to soil where there is greater than 30% c Do not apply within 30 days of harvest	over of crop residue	e remaining		
Do not graze livestock in treated area or cut treated ci				
Do not graze livestock in treated area or cut treated cr Do not apply more than 0.1 pound active per acre per	season as an at pla	ant application	······	20
Do not graze livestock in treated area or cut treated ci				30 0 080

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FIELD CORN (GRAIN AND SILAGE) POPCORN FIELD CORN GROWN FOR SEED (PRE EMERGENT & PRE PLANT INCORPORATED)

Apply as directed using the rates in the table below

PEST	RATE	APPLICATION INSTRUCTIONS
Black Cutworm White Grub Wireworm Seedcorn Maggot Armyworm spp Stalkborer	3 to 4 fl oz (0 047 to 0 062 lb aı) per acre Pre plant Incorporated (PPI)	The 3-4 oz/A rate must be applied as PPI and can be tank mixed and applied with PPI herbicides Incorporation of LIBERTY BIFENTHRIN 2 EC should not be any deeper than the intended planting depth and no deeper than 3 inches Incorporation depth should be close to the intended seed planting depth
Black Cutworm Armyworm spp Stalkborer	2 56 fl oz (0 040 lb aı) per acre Pre emergence (PRE)	The 2 56 oz/A rate may be applied PRE and can be tank mixed and applied with PRE herbicides

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

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids	2 1 to 6 4 fl oz	Apply in a minimum of 2 to 5 gallons of finished spray per acre
Army Cutworm	(0 033 to 0 10 lb	by aircraft or in a minimum of 10 gallons per acre with ground
Beet Armyworm	aı)	equipment To improve control by aircraft use 5 gallons of
Cereal Leaf Beetle	per acre	finished spray per acre particularly when initial populations are
Chinch Bug		heavier than normal When applying by air 1 to 2 quarts of
Common Stalk Borer Corn Earworm		emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray
Corn Rootworm Adult		the ministred spray
Cucumber Beetle Adults		Thorough coverage is essential to achieve control
Cutworm Species		
European Corn Borer		To Control Ear Attacking Pests Apply LIBERTY
Fall Armyworm		BIFENTHRIN 2 EC just before silking and repeat as
Flea Beetle		necessary to maintain control but do not exceed maximum
Grasshoppers		application rates and reapplication intervals listed elsewhere in
Greenbug		this section
Japanese Beetle Adult		
Sap Beetle		Southwestern Corn Borer European Corn Borer Make
Southern Armyworm Southern		application for corn borer control with initial application at or
Corn Leaf Beetle		shortly before egg hatch
Southwestern Corn Borer		For Control Of Other Insect Desta Apply when posts first
Stinkbugs		For Control Of Other Insect Pests Apply when pests first
Tarnished Plant Bug	l	appear and repeat as necessary but do not exceed maximum

		(
True Armyworm or Armyworm Species Webworms Western Bean Cutworm Yellowstriped Armyworm		application rates and reapplication intervals listed elsewhere in this section
Banks Grass Mite Carmine Mite Twospotted Spider Mite	5 12 to 6 4 fl oz (0 08 0 10 lb aı) 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 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 pound 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 BIFENTHRIN 2 EC on corn is prohibited in all coastal counties

SWEET CORN (GRAIN AND SILAGE) SWEET CORN GROWN FOR SEED (AT PLANT USE)

Apply as directed using the rates in the table below

PEST	RATE	APPLICATION INSTRUCTIONS
Corn Rootworm Larvae (Northern	0 30 fl oz (0 0046 lb aı)	Apply as a 5 to 7 inch T band treatment over an open seed furrow Position the spray nozzle behind the planter shoe in front of the press
Southern	per 1 000	wheel centered over the row Use the table below to determine the
Western)	linear feet of row	LIBERTY BIFENTHRIN 2 EC needs per acre Apply in a minimum of 3 gallons of finished spray per acre
Army Cutworm	0 15 to 0 30 fl	
Cutworm Species	oz	Mix LIBERTY BIFENTHRIN 2 EC with water or fertilizer in the following
Grubs	(0 0023 to	manner Fill the spray tank approximately one half full with water or liquid
Seed Corn Beetle	0 0046 lb aı)	fertilizer add the proper amount of LIBERTY BIFENTHRIN 2 EC then add
Seed Corn Maggot	per 1 000	the rest of the water or fertilizer Provide sufficient agitation during mixing
True Armyworm	linear feet	and application to maintain a uniform spray mixture
or	of row	
Armyworm species		Applications of LIBERTY BIFENTHRIN 2 EC alone or in recommended
Wireworms		tank mixtures in conjunction with in furrow pop up fertilizers may be used
		A jar compatibility test should be performed with appropriate ratio of
		LIBERTY BIFENTHRIN 2 EC and fertilizer to ensure mixture will stay in
		solution Constant agitation should be maintained during mixing and application
RESTRICTIONS		

Do not apply to soil where there is greater than 30% cover of crop residue remaining Do not apply within 30 days of harvest

		1		
Do not graze livestock in treated area or cut treated ci	rops for feed with	in 30 days of ti	reatment	
Do not apply more than 0 1 pound active per acre per	season as an at	plant application	on	
Row spacings (inches)	40	38	36	30
LIBERTY BIFENTHRIN 2 EC (pounds per acre)	0 060	0 064	0 069	0 080
LIBERTY BIFENTHRIN 2 EC (formulated product	39	4 1	44	5 12
ounces per acre)				

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 Army Cutworm Beet Armyworm Cereal Leaf Beetle Chinch Bug	2 1 to 6 4 fl oz (0 033 0 10 lb aı) per acre	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 to 2 quarts of emulsified oil may
Common Stalk Borer Corn Earworm Corn Rootworm Adults		be substituted for 1 to 2 quarts of water in the finished spray
Cucumber Beetle Adult Cutworm Species European Corn Borer		Thorough coverage is essential to achieve control To Control Ear Attacking Pests Apply LIBERTY
Fall Armyworm Flea Beetle Grasshoppers Greenbugs Japanese Beetle Adult		BIFENTHRIN 2 EC when silking begins and repeat as necessary to maintain control but do not exceed maximum application rates and reapplication intervals listed elsewhere in this section
Sap Beetle Southern Armyworm Southern Corn Leaf Beetle Southwestern Corn Borer		Southwestern Corn Borer European Corn Borer Make 2 applications for corn borer with the initial application at or shortly before egg hatch
Stinkbugs Tarnished Plant Bug True Armyworm or Armyworm Species Webworms Western Bean Cutworm Yellowstriped Armyworm		For Control Of Other Insect Pests Apply when pests first appear and repeat as necessary but do not exceed maximum application rates and reapplication intervals listed elsewhere in this section
Banks Grass Mite Carmine Mite Twospotted Spider Mite	5 12 to 6 4 fl oz (0 08 0 10 lb aı) 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
RESTRICTIONS		Higher rates will be necessary for heavier initial populations and corn under heat or drought stress

Do not apply more than 0.2 pound 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 BIFENTHRIN 2 EC 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 (Banded) Thrips Tobacco Thrips	1 3 6 4 fl oz /acre	LIBERTY BIFENTHRIN 2 EC may be applied in water or refined vegetable oil (soybean/cottonseed)
	(0 02 0 10 lb aı/acre)	Application in Water Apply in a minimum of 5 gallons per acre with ground equipment or 1 gallon per acre by aircraft When
Boll Weevil Boliworm	2 6 6 4 fl oz /acre	applying by air 1 quart of emulsified oil may be substituted for one quart of water in the finished spray
Cabbage Looper Cotton Aphid Cotton Fleahopper Cotton Leafperforator Cutworms Fall Armyworm	(0 04 0 10 lb aı/acre)	ULV Application Apply the recommended rate of LIBERTY BIFENTHRIN 2 EC in refined vegetable oil in a minimum of 1 quart of finished spray per acre with aircraft calibrated to give adequate coverage
Plant Bugs Saltmarsh Caterpillar Southern Garden Leafhopper Stink Bugs Tobacco Budworm		To Control Boll Weevil Apply LIBERTY BIFENTHRIN 2 EC at an interval of 3 to 4 days until pest numbers are reduced to acceptable levels
Whitefly Yellowstriped Armyworm		To Control Mites and Aphids Apply when pests first appear Repeat as necessary to maintain control but do not exceed
Beet Armyworm Carmine Spider Mite <i>Lygus</i> spp	3864fl oz /acre	maximum application rates and reapplication intervals listed elsewhere in this section Higher rates will be required once a damaging threshold is established
Pink Bollworm Twospotted Spider Mite	(0 06 0 10 lb ai/acre	
RESTRICTIONS Do not apply more than 0 5 pour Do not apply within 14 days of h		ent per acre per season

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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

CROP	PEST/RATE	APPLICATION INSTRUCTIONS
Chayote (fruit)	PESTS	Apply in a minimum of 5 gallons of finished spray
Chinese waxgourd (Chinese	Aphids	per acre by air or in a minimum of 20 gallons per
preserving melon)	Armyworms	acre with ground equipment
Citron melon	Cabbage Looper	
Cucumber	Corn Earworm	When applying by air 1 to 2 quarts
Gherkin	Cucumber Beetles	of emulsified oil may be substituted for 1 to 2
Gourd edible (includes	Cutworms	quarts of water in the finished spray
hyotan cucuzza)	Grasshoppers	
(Luffa spp) (includes	Leafhoppers	Thorough coverage is essential to achieve control
hechima	Melonworms	
Chinese okra)	Pickleworms	
(Momordica spp)	Plant Bugs	
(includes balsam apple	Rindworms	
balsam pear bitter melon	Squash Bugs	
Chinese cucumber)	Squash Vine Borer	
Muskmelon (hybrids and/or	Stink Bugs	
cultivars or Cucumis melo)	Tobacco Budworm	
(includes true cantaloupe		

cantaloupe casaba RATE crenshaw melon 26 to 64 fl oz (004 to 01 golden pershaw melon lb ai) per acre honeydew melon PESTS honey balls mango melon Whitefly Persian melon pineapple Banks Grass Mite melon Santa Claus melon Twospotted spider Mite and snake melon) Carmine Mite Pumpkin (Cucurbita spp) Lygus spp Squash summer (includes crookneck squash scallop RATE squash straightneck 5 12 to 6 4 fl oz (0 08 to squash vegetable marrow 0 1 lb aı) per acre 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) RESTRICTIONS Do not apply more than 0.3 lb active ingredient (19.2 ounces formulated product) per acre per season Do not make more than two applications after bloom

- Do not make applications less than 7 days apart
- Do not apply within 3 days of harvest

DRIED BEANS AND PEAS

CROP	PEST	RATE	APPLICATION INSTRUCTIONS
Dried cultivars of	Aster Leafhopper	16 to 64 floz	Apply in a minimum of 2 gallons of
Beans (Lupinus) Beans	Flea Beetle	(0 025 to 0 10 lb	finished spray per acre by air or in a
(Phaseolus)	Grasshoppers	aı) per acre	minimum of 10 gallons per acre with
Field bean	Leafhoppers		ground equipment
Kidney bean	Aphids	2 1 to 6 4 fl oz	
Lıma bean (dry)	Beet Armyworm	(0 033 to 0 10 lb	When applying by air 1 to 2 quarts
Navy bean	Fall Armyworm	aı) per acre	of emulsified oil may be substituted
Pinto bean	Southern Armyworm		for 1 to 2 quarts of water in the
Tepary bean	Yellowstriped Armyworm		finished spray
Bean (Vigna)	Bean Leaf Beetle		
Adzuk bean	Cucumber Beetle		Thorough coverage is essential to
Blackeyed pea	Japanese Beetle (Adult)		achieve control
Catjang	Sap Beetle		
Cowpea	Plant Bugs		
Crowder pea	Stink Bugs		
Moth bean	Tarnished Plant Bug		
Mung bean	Alfaifa Caterpillar		
Rice bean	Cloverworm		
Southern pea	European Corn Borer		
Urd bean	Cutworms		
Broad bean (dry)	Western Bean Cutworm		
Chickpea	Corn Earworm		
Guar	Loopers		
Lablab bean	Corn Rootworm (Adult)		
Lentil	Thrips		
Peas (Piscum)	Webworms		
Field pea	Pea Weevil		

Pigeon pea	Pea Leaf Weevil Whitefly Imported cabbageworm Saltmarsh caterpillar Tobacco budworm Leafminer	
	Banks Grass Mite Twospotted Spider Mite Carmine Mite <i>Lygus</i> spp	5 12 to 6 4 fl oz (0 08 to 0 10 lb aı) per acre

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Do not apply more than 0.2 lb active ingredient (12.8 ounces formulated product) to peas or 0.3 lb active Ingredient (19 2 ounces formulated product) to beans per acre per season Do not apply within 14 days of harvest

Do not make applications less than 7 days apart

FRUITING VEGETABLES

CROP	PEST	RATE	APPLICATION INSTRUCTIONS	
Eggplant Pepper (Bell & Non Bell) Groundcherry Pepino	Armyworms including Beet Armyworm Fall Armyworm Southern Yellowstriped Armyworm Cabbage Looper Colorado Potato Beetle Corn Earworm Cucumber Beetle Cutworms European Corn Borer Flea Beetle Leafminers Loopers Pepper weevil Plant Bugs Stink Bugs Thrips Tomato Hornworm Tomato Hornworm Vegetable Leafminer Whitefly Banks Grass Mite Broad Mite Carmine Mite Lygus spp Pacific Spider Mite	2 1 to 6 4 fl oz (0 033 to 0 10 lb aı) per acre 5 12 to 6 4 fl oz (0 08 to 0 10 lb aı) per acre	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 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	
Twospotted Spider Mite RESTRICTIONS Do not make applications less than 7 days apart Do not apply more than 0 2 lb active ingredient (12 8 ounces formulated product) per acre per season Do not apply within 7 days of harvest				
Tomato Tomatillo	Aphids Armyworms including Beet Armyworm Fall Armyworm Southern Armyworm Yellowstriped Armyworm Bean Leaf Beetle	2 1 to 5 2 fl oz (0 033 to 0 08 lb aı) per acre	Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment Thorough coverage is essential to	

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		(
Cabbageworm		achieve control	
Carmine Mite			
Cloverworm			
Corn Earworm			
Cucumber Beetle			
Cutworms			
Diamondback Moth			
European Corn Borer			
Flea Beetles			
Flea Hopper			
Grasshopper			
Japanese Beetle (Adult)			
Leafhoppers			
Loopers			
Lygus spp			}
Melonworm			l l
Pea Weevil			
Pea Leaf Weevil			
Pickleworm			
Plant Bug			
Rindworm			
Salt Marsh Caterpillar			
Sap Beetle			
Seedpod Weevil			
Squash Bugs			
Stink Bug species			
Tobacco Budworm			
Tarnished Plant Bug			
Thrips			
 Whitefly		_	
Twospotted Spider Mite	5 12 to 6 4 fl oz		
	(0 08 to 0 10 lb		
	aı) per acre		

A maximum of 4 applications may be applied per season Do not apply within 1 day of harvest

EGGPLANT

Apply as directed using the rates in the table below

PEST	RATE	APPLICATION INSTRUCTIONS
Armyworms Cabbage Looper Colorado Potato Beetle Corn Earworm Cucumber Beetle European Corn Borer Flea Beetle Plant Bugs Stink Bugs Thrips Tornato Hornworm Tomato Hornworm Vegetable Leafminer Whitefly	2 1 to 6 4 fl oz (0 033 to 0 10 lb aı) per acre	 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 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
Banks Grass Mite	5 12 to 6 4 fl	
Twospotted Spider Mite	oz (0 08 to	
Carmine Mite	0 10 lb_ai) per	

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	((
Pacific Spider Mite	acre	
Lygus spp		
RESTRICTIONS		
Do not make applications le	ss than 7 days apart	

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Do not apply more than 0.2 lb active ingredient (12.8 ounces formulated product) per acre per season

Do not apply within 7 days of harvest

GRAPES

Apply as directed using the rates in the table below

PEST	RATE	APPLICATION INSTRUCTIONS
Cutworms	3 2 to 6 4 fl oz	Apply in a minimum of 10 gallons of finished spray by air or in
Eastern Grape Leafhopper	(0 05 to 0 10 lb	a minimum of 25 gallons of finished spray with ground
Grape Berry Moth	aı) per acre	equipment
Japanese Beetles Adults		
Variegated Leafhopper Western		When applying by air 1 to 2 quarts of emulsified oil may be
Grape Leafhopper		substituted for 1 to 2 quarts of water in the finished spray
Black Vine Weevil	6 4 fl oz	
Glassywinged Sharpshooter	(0 10 lb aı)	Thorough coverage is essential to achieve control
Twospotted Spider Mite	per acre	
· · · · · · · · · · · · · · · · · · ·		When pest pressure is moderate to severe use higher rate

Do not apply within 30 days of harvest

HOPS

Apply as directed using the rates in the table below

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids Armyworms Cutworms Leafrollers	3 8 to 6 4 fl oz (0 06 to 0 1 lb aı) per acre	Application by ground For best results full coverage is essential Early season recommend 100 150 gallons of spray per acre Late season recommend 200 250 gallons of spray per acre
Loopers		For Root Weevil control make a directed spray to the base of the plant
Root Weevils	3 2 to 6 4 fl oz (0 05 to 0 1 lb al) per acre	Spray up the vine 3 feet and the soil surface 1 5 to 2 feet on either side of the plant
		Application by air for late season control of Twospotted Spider Mites
Twospotted Spider Mite	6 4 fl oz (0 1 lb aı) per acre	Apply no less than 6 4 oz (0 1 lb ai) per application in a minimum of 10 gallons per acre
		Use of ultra low volume (ULV) application on hops is prohibited
RESTRICTIONS		
Do not exceed 0 1 lt	o ai per acre per app	plication

Do not exceed 0 3 lb ai per acre per season

A spray interval of 21 days between applications must be maintained

A 14 day preharvest interval must be observed

LEAFY BRASSICAS* TURNIP GREENS*

Apply as directed using the rates in the table below

		RATE	APPLICATION INSTRUCTIONS
Broccoli Raab	Cutworms	2 1 to 6 4 fl	Apply in a minimum of 2 gallons of finished
Bok Choy	Corn Earworm	oz /acre	spray per acre by air or in a minimum of 10
Collards	Tobacco Budworm	(0 033 to	gallons per acre with ground equipment
Kale	Saltmarsh Caterpillar	0 1 lb ai/acre)	
Mizuna	Leafhoppers		Whey applying by air 1 to 2 quarts of
Mustard Greens	Flea Beetles		emulsified oil may be substituted for 1 to 2
Mustard Spinach	Imported Cabbageworm		quarts of water in the finished spray
Rape Greens	Cucumber Beetles		
	Aphids		Thorough coverage is essential to achieve
	Whitefly		control
	Armyworms		
	Loopers		See resistance Management Statement
	Stink Bugs		under Directions For Use section
	Crickets		
	Ground Beetles		
	Thrips		
	Wireworm (Adults)		
	Diamondback Moth		
	Japanese Beetles (Adult)		
	Grasshoppers		
	Aphids		-
	Banks Grass Mite	5 12 to 6 4 fl	
	Twospotted Spider Mite	oz /acre	
	Carmine Mite	(0 08 to 0 1 lb	
	Pacific Spider Mite	aı/acre)	
	Lygus spp		
RESTRICTIONS			
	re than 0.4 lb active ingredient i		
	lications less than 7 days apart		

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Do not apply within 7 days of harvest

LETTUCE, HEAD

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids Armyworms Corn Earworm Cucumber Beetles Cutworms Diamondback Moth Flea Beetle Imported Cabbageworm Leafhoppers Loopers Salt marsh Caterpillar Stink Bug spp Tobacco Budworm Whitefly	2 1 to 6 4 fl oz (0 033 to 0 10 lb aı) per acre	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 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
<i>Lygus</i> spp Carmine Mite Twospotted Spider Mite	5 12 to 6 4 fl oz (0 08 to 0 10 lb aı) per acre	
RESTRICTIONS		

Do not make applications less than 7 days apart A maximum of 0 5 lb active ingredient may be applied per acre per season Do not apply within 7 days of harvest

MAYHAW

Apply as directed using the rates in the table below

PEST	RATE	APPLICATION INSTRUCTIONS	
Plum Curculio	5 12 to 6 4 fl oz (0 08 to 0 10 lb ai) per acre	Apply as a foliar treatment using at least of 28 gallons per acre	
RESTRICTIONS			
	ons less than 7 days apa		
Do not apply more than 0.2 pound active ingredient per acre per season			
Do not apply within 30) days of harvest		

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OKRA

Apply as directed using the rates in the table below

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids Armyworms Corn earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Japanese Beetle (Adult) Leafminers Loopers Stink bugs Thrips Whitefly	2 1 to 6 4 fl oz (0 033 to 0 1 lb aı) per acre	Apply using sufficient water to obtain uniform coverage Apply as needed 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
<i>Lygus</i> spp Broad Mite Carmine Mite Two Spotted Spider Mite	5 12 to 6 4 fl oz (0 08 to 0 1 lb aı) per acre	
RESTRICTIONS Do not make applications les Do not apply more than 0.2 Do not apply within 7 days of	pound active ingredien	t per acre per season

PEANUT

PEST	RATE	APPLICATION INSTRUCTIONS
Beet Armyworms Corn earworm Cucumber Beetles Cutworm species Fall Armyworm Grasshoppers Green cloverworm Leafhoppers	2 1 to 6 4 fl oz (0 033 to 0 1 lb aı) per acre	Apply foliar treatments in at least 10 gallons per acre at the rate of 6 4 fl oz (0 1 lb active ingredient) per acre at a minimum of 14 days intervals

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Lesser Cornstalk Borer Loopers Rednecked Peanut Worm Southern Armyworm Southern Corn Rootworm Stink Bugs Threecornered Alfalfa Hopper Velvetbean Caterpillar Yellowstriped Armyworm Aphids Spider Mites Thrips Whitefly	5 12 to 6 4 fl oz (0 08 to 0 1 ib aı) per acre		
RESTRICTIONS Do not feed green immature p Do not apply more than 0 5 p Do not apply within 14 days o	ound active ingredien		

PEARS

Apply as directed using the rates in the table below

RATE	APPLICATION INSTRUCTIONS
2 6 to 12 8 fl oz (0 04 to 0 2 lb aı) per acre	 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 Application by air Apply the specified dosage in a minimum of 10 gallons per acre by air Apply as necessary to maintain control using a minimum of 30 day spray interval Apply up to 14 days prior to harvest
3 8 to 12 8 fl oz (0 06 to 0 2 lb aı) per acre	
5 12 to 12 8 fl oz (0 08 to 0 2 lb aı) per acre	
-	(0 04 to 0 2 lb ai) per acre 3 8 to 12 8 fl oz (0 06 to 0 2 lb ai) per acre 5 12 to 12 8 fl oz (0 08 to 0 2 lb ai)

Do not apply more than 0.5 pound active per acre per season with no more than 0.45 pound active per acre applied after petal fall

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

PEPPERS BELL AND NON BELL

Apply as directed using the rates in the table below

PEST	RATE	APPLICATION INSTRUCTIONS
Armyworms Corn Earworm Cucumber Beetle Cutworms European Corn Borer Flea Beetle	2 1 to 6 4 fl oz (0 033 to 0 1lb aı) per acre	Apply using sufficient water to obtain uniform coverage Apply as needed 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

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	($\left(\right)$	24(36
Leafminers			7
Loopers			ł
Pepper Weevil			
Thrips			1
Whitefly			
<i>Lygus</i> spp	5 12 to 6 4 fl oz		
Broad Mite	(0 08 to 0 10 lb		
Carmine Mite	aı) per acre		
Twospotted Spider Mite			
RESTRICTIONS			
Do not make applications			
		edient per acre per season	1
Do not apply within 7 days	s of harvest		

ROOT CROPS

Apply as directed using the rates in the table below

CROP	PEST	RATE	APPLICATION INSTRUCTIONS		
Burdock edibleAphidsCarrotBeet ArmywormCeleriacCelery leaftierChervil turnip rootedCorn EarwormChicoryCross Striped CabbagewormGinsengCutwormsHorseradishDiamondback mothParsley turnip rootedEuropean Corn BorerParsnipFall ArmywormRadishFire AntsRadish orientalFlea BeetlesRutabagaGreen CloverwormsSalsifyImported CabbagewormSalsify SpanishLoopersSkirretSouthern ArmywormTurnipSpider MitesTobacco BudwormVelvetbean Caterpillar		5 12 to 6 4 fl oz (0 08 to 0 10 lb ai) per acre	Apply foliar treatments in at least 25 gallons per acre		
	Yellowstriped Armyworm ons less than 7 days apart n 0 5 pound active per acre per se days of harvest Aphids Fire Ants Flea Beetles Lepidopterous Larvae Spider Mites Whitefly	eason 5 12 to 6 4 fl oz (0 08 to 0 10 lb aı) per acre	Apply foliar treatments in at least 25 gallons per acre		
	ons less than 7 days apart n 0 4 lb_active ingredient per acre day of harvest	per season			

SOYBEAN

Apply as directed using the rates in the table below

Do not apply within 18 days of harvest

SPINACH

Apply as directed using the rates in the table below

PEST	RATE	APPLICATION INSTRUCTIONS			
Armyworms	2 1 to 6 4 fl oz	Apply the specified dosage in 5 50 gallons of finished spray			
Colorado Potato Beetle	(0 033 to 0 10 lb	per acre by air or 10 50 gallons of finished spray per acre by			
Corn Earworm	aı) per acre	ground			
Cucumber Beetles					
Cutworms		For control of Whiteflies apply foliar treatments of LIBERTY			
European Corn Borer		BIFENTHRIN 2 EC by ground or air at rates of up to 0 4 pt			
Flea Beetles		(0 1 lb active) per acre at minimum 7 day intervals up to a			
Leafminers		maximum of 4 applications			

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	Ne contraction of the second s	
Loopers Pepper Weevil Thrips Tomato Pinworm Tomato Hornworm Whitefly		For control of Fire Ants apply LIBERTY BIFENTHRIN 2 EC to the soil (at planting) or as a foliar treatment by ground or air at rates up to 0.4 pt (0.1 lb active) per acre at minimum 7 day intervals up to a maximum of 4 applications
Broad mite Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus spp Fire Ants	5 12 to 6 4 fl oz (0 08 to 0 10 lb aı) per acre	
RESTRICTIONS Do not make applications le Do not apply more than 0 4		per acre per season

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Do not apply within 40 days of harvest

SUCCULENT PEAS AND BEANS

Apply as directed at the table rates below

CROP	PEST	RATE	APPLICATION INSTRUCTIONS		
Peas (Pisum spp)	Flea Beetle	1 6 to 6 4 fl oz	Apply in a minimum of 2 gallons of		
including	Grasshoppers	(0 025 to 0 10 lb	finished spray per acre by air or in a		
Dwarf pea	Aster Leafhopper	aı) per acre	minimum of 10 gallons per acre with		
Edible pod pea	Leafhoppers		ground equipment		
English pea	Aphids	2 1 to 6 4 fl oz			
Garden pea	Beet Armyworm	(0 033 to 0 10 lb	When applying by air 1 to 2 quarts of		
Green pea	Fall Armyworm	ai) per acre	emulsified oil may be substituted for 1		
Snow pea	Southern Armyworm		to 2 quarts of water in the finished		
Sugar snap pea	Yellowstriped Armyworm		spray		
Pigeon pea	Bean Leaf Beetle				
Bean (Phaseolus spp)	Cucumber Beetle		Thorough coverage is essential to		
including	Japanese Beetle Adult		achieve control		
Broadbean(succulent)	Sap Beetle				
Lima bean (green)	Plant Bugs				
Runner bean	Stink Bugs				
Snap bean	Tarnished Plant Bug				
Wax bean	Alfalfa Caterpillar				
Bean (Vigna spp)	Clover Worm				
including	European Corn Borer				
Asparagus bean	Cutworms				
Blackeyed pea	Western Bean Cutworm				
Chinese longbean	Corn Earworm				
Cowpea	Loopers				
Moth bean	Corn Rootworm Adult				
Southern pea	Thrips				
Yardlong bean	Webworms				
Jackbean Soybean	Pea Weevil				
(immature seed)	Pea Leaf Weevil				
Sword bean	Whitefly				
Gword Beam	Banks Grass Mite	5 12 to 6 4 fl oz	4		
	Twospotted Spider Mite	(0 08 to 0 10 lb			
	Carmine Mite	ai) per acre			
		ai) per acre			
RESTRICTIONS	Lygus spp	l			
	0 2 lb active ingredient (12 8 d	supcos formulated pro-	duct) por core por concep		
Do not apply more than Do not apply within 3 da		unces iornulated pro	uuci) per acre per seasori		
Do not apply within 3 d	ays of narvest				

TOBACCO

Apply as directed using the rates in the table below

PEST	RATE	APPLICATION INSTRUCTIONS			
Cutworm spp Tobacco Flea Beetle (larvae) White Grubs Wireworms Mole Crickets Armyworm spp Stalkborers	4 0 to 6 4 fl oz (0 0625 to 0 10 lb aı) per acre	 Pre Transplant Soil Application Apply 0 0625 to 0 1 pounds active ingredient in a minimum of 10 gallons per acre to control soil pests. Use of suitable equipment to incorporate into top 4 of the soil is required to control below ground pests. At Plant Water Treatment Application Apply 0 0625 to 0 1 pounds active ingredient in a water treatment application volume of 10 to 200 gallons per acre 			
Aphid spp Armyworm spp Flea Beetle (Adult) Chinch bugs Stink bugs Japanese Beetles Grasshoppers Cutworm spp Tarnished Plant Bugs Green bugs Thrips Whiteflies	2 56 to 6 4 fl oz (0 04 to 0 10 lb aı) per acre	Foliar Application Apply 0 04 to 0 1 pounds active ingredient per foliar application up to and including layby in a minimum of 10 gallons per acre			
Spider Mites	64 fl oz (010 lb ai)				
Lygus spp RESTRICTIONS	per acre	L			
Do not apply later than layby					
Do not apply more than 0 2 pou					
May be tank mixed with other herbicides labeled for tobacco use					
Do not make more than 2 foliar	applications per season				

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TOMATOES

Apply as directed at a rate of 2 1 to 5 2 fl oz (0 033 to 0 08 lb ai) per acre

PEST	APPLICATION INSTRUCTIONS
Aphids	Apply in water as necessary for insect control using a minimum of 15
Armyworms including	gallons of finished spray per acre with ground equipment
Beet Armyworm	
Fall Armyworm	Thorough coverage is essential to achieve control
Southern Yellowstriped Armyworm	
Bean Leaf Beetle	
Cabbageworm	
Carmine Mite	
Cloverworm	
Corn Earworm	
Corn Rootworm	
Cucumber Beetle	
Cutworms	
Diamondback Moth	
European Corn Borer	
Flea Beetles	
Flea Hopper	
Grasshoppers	
Japanese Beetle (Adult)	
Leafhoppers	
Loopers	

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Lygus spp		······································		
Melonworms				
Pea Weevil				
Pea Leaf Weevil				
Pickleworms				
Plant Bugs				
Rındworm				
Saltmarsh Caterpillar				
Sap Beetle				
Seedpod Weevil				
Squash Bugs				
Stink Bug spp				
Tobacco Budworm				
Tarnished Plant Bug				
Thrips				
Twospotted Spider Mite				
Whitefly	<u> </u>	· _ · · · · · · · · · · · · · · · · · ·		
RESTRICTIONS	han 40 days arent			
Do not make applications less t				
A maximum of 4 applications m		1		
Do not apply within one day of				

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TUBEROUS AND CORM VEGETABLES

Apply as directed using the rates in the table below

1

Corn wireworm	
	In Furrow At Planting Application Apply LIBERTY
Tobacco wireworm	BIFENTHRIN 2 EC to control wireworms rootworms and
Southern potato wireworm	white grubs Apply at the rate of 0.3 pounds active
Japanese beetle grubs	ingredient (19 2 ounces formulated product) per acre as an
June beetle	in furrow or T band spray at planting time
Sweetpotato flea beetle	
Cucumber beetle	Lay By Application Apply LIBERTY BIFENTHRIN 2 EC
Sweetpotato Weevil	to control wireworms rootworms and white grubs
Banded Cucumber Beetle	Apply to the drill area and cover with soil utilizing cultivation
Black flea beetle	equipment set to throw soil to the drill area Apply at the
Whitefringed beetle	rate of 0 05 to 0 15 pounds active ingredient (3 2 to 9 6
White grub	ounces formulated product) in 10 gallons per acre of spray
Sugarcane beetle	
Rootworms	Foliar Application Apply LIBERTY BIFENTHRIN 2 EC to
	control the adult life stages of flea beetles click beetles
	(wireworms) cucumber beetles (rootworms)
	Whitefringed beetles and May/June beetles (White
	grubs) Apply at the rate of 0.1 lbs active ingredient (6.4
	ounce formulated product) per acre in 10 gallons of spray
	by ground equipment and 3 gallons of spray by air
	Southern potato wireworm Japanese beetle grubs June beetle Sweetpotato flea beetle Cucumber beetle Sweetpotato Weevil Banded Cucumber Beetle Black flea beetle Whitefringed beetle White grub Sugarcane beetle

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

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 sod farms and golf courses.

PRODUCT INSTRUCTIONS

LIBERTY BIFENTHRIN 2 EC 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 etc and outdoor plantscapes such as but not limited to nurseries residential dwellings parks institutional buildings recreational areas athletic fields golf courses sod farms and home lawns. Non bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity during the season of application

LIBERTY BIFENTHRIN 2 EC may be tank mixed with other products including insect growth regulators. When tank mixing LIBERTY BIFENTHRIN 2 EC 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 LIBERTY BIFENTHRIN 2 EC 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.

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.

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 mountain pine beetle southern pine beetle western pine beetle and black turpentine beetle	16 32 fl oz per 100 gallons (0 25 – 0 5 lb Al per 100 gallons)	Use 1-4 gallons of finished spray per tree	Make applications to the trunk of the tree with a hydraulic sprayer in the early spring or prior to adult beetle flight and tree infestation
Engraver beetle (<i>lps</i> spp)	16 – 32 fl oz per 100 gallons (0 25 – 0 5 lb Al per 100 gallons)	Use 10 14 gallons of finished spray per tree	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
Other bark beetles such as ambrosia beetles elm bark beetles and metallic wood borers such as emerald ash borer	16 – 32 fl oz per 100 gallons (0 25 – 0 5 lb Al per 100 gallons)	Use 2 5 gallons of finished spray per tree	Make applications of a spray mixture to the trunk scaffolding and limbs of the tree with a hydraulic sprayer in the early spring or prior to adult beetle flight and tree infestations Spray until the bark is thoroughly wet

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Clearwing moth borers such as ash borer banded ash clearwing dogwood borer lesser peachtree borer lilac borer oak borer peachtree borer rhododendron borer	6 4 – 12 8 fl oz per 100 gallons (0 1 – 0 2 lb Al per 100 gallons)	Use 1-4 gallons of finished spray per tree	Apply to the branches and trunks prior to adult emergence Spray until the bark is thoroughly wet For maximum residual control use highest recommended rate
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 BIFENTHRIN 2 EC 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 (12.8 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 (12.8 fl. oz.) of this product to trees per acre

FOLIAR SPRAYS TO ORNAMENTALS AND TREES

(Including Field and Container Grown Nursery Stock, Christmas Trees, Interiorscapes and Plantscapes Lawns Trees and Shrubs, and on Golf Courses and Sod Farms

For applications to ornamentals (including but not limited to trees shrubs ground covers bedding plants and foliage plants conifers (field and container grown) Christmas Trees and pine seed orchards) apply 0.04 to 0.32 fl oz LIBERTY BIFENTHRIN 2 EC per 1.000 sq ft or 1.8 to 14.4 fl oz per 100 gallons LIBERTY BIFENTHRIN 2 EC may be diluted and applied in various volumes of water providing that the maximum label rate (0.32 fl oz per 1.000 sq ft or 14.4 fl oz per 100 gallons) is not exceeded LIBERTY BIFENTHRIN 2 EC may be applied through low volume application equipment by dilution with water or other carriers and providing that the maximum label rate (0.32 fl oz per 1.000 sq ft or 14.4 fl

Calculating Dilution Rates Using the Ornamental Application Rates Table and the LIBERTY BIFENTHRIN 2 EC 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 08 to 0 16 fl oz of this product should be applied per 1 000 sq ft. You select an application rate of 0 16 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 24 fl oz of this product in 10 gallons of water.

			HRIN 2 EC OF									
Application								1 Gallon				100 Gallons
FI oz /1 000 sq ft	FI oz	mL	FI oz	mL	FI oz	mL	FI oz					
0 04	0 018	05	0 09	26	0 18	53	18					
0 08	0 036	11	0 18	53	0 36	10 6	36					
0 16	0 072	2 1	0 36	10 6	0 72	21 3	72					
0 32	0 144	43	0 72	21 3	1 44	42 6	14 4					

(25)(FI Oz of LIBERTY BIFENTHRIN 2 EC added to tank =

(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 0.32 fl oz per 1.000 sq ft (14.4 f oz per 100 gallons) to control each of the pest listed in this table. The higher application rates should be used when maximum residual control is desired

Percent Active Ingredient of Spray Mix

PEST	RATES	USE INSTRUCTIONS
Bagworms	0 04 - 0 08 fl oz per 1 000	¹ Bagworms For best results apply when larvae begin
Cutworms	sq ft	to hatch and spray larvae directly Applications when
Elm Leaf Beetles		larvae are young will be most effective
Fall Webworms	(18-38fl oz per 100	
Gypsy Moth Caterpillars	gallons)	² Beetles Scale Crawlers Twig Borers and Weevils
Lace Bugs	gallotto)	May treat trunks stems and twigs in addition to plant
Leaf Feeding Caterpillars		foliage
Tent Caterpillars		lonage
Tussock moth		3 Studies Mites IREDTV DIFENTURIN 2 FO mounder
Adelgids ⁺	0 08 - 0 16 fl oz per 1 000	³ Spider Mites LIBERTY BIFENTHRIN 2 EC provides
Adeigius Ants		optimal twospotted spider mite control when applied
Ans Aphids	sq ft	during spring to mid summer Higher application
Bees	(2.6.7.2.fl. oz. por 100	rates and/or more frequent treatments may be
-	(36-72fl oz per 100 gallons)	required for acceptable twospotted spider mite control
Beet Armyworm Beetles ²	gailons)	during mid to late-summer The addition of a
		surfactant or horticultural oil may increase the
Black Vine Weevil (Adults)		effectiveness of this product Combinations of this
Scales such as		product with other registered miticides have also
Brown Soft Scales		proven effective Alternately LIBERTY BIFENTHRIN 2
California Red Scale (Crawlers) ²		EC applications may be rotated with those of other
Elongated Hemlock Scale		products that have different modes of action in control
Pine Needle Scales (crawlers) ²		programs that are designed to manage resistance by
San Jose Scales (Crawlers) ²		twospotted spider mites Consult your local
Broad Mites		Cooperative Extension Service for resistance
Budworms		management recommendations in your region
Cicadas+		
Citrus Thrips		
Clover Mites		
Crickets		
Earwigs		
European Red Mite		
Flea Beetles		
Fungus Gnats (Adults)		
Glassywinged Sharpshooter		
Grasshoppers		
Japanese Beetle (Adult)+		
Leafhoppers		
Leafrollers		
Mealybugs		
Mites		
Mosquitoes		
Nantucket Pine Tip Moth		
Pillbugs	1	
Pine sawflies		
Plant Bugs (including <i>Lygus</i> spp)	}	
Psyllids+		
Scorpions		
Spider Mites ³		
Spiders		
Spittlebugs+		
Thrips The Mathe		
Tip Moths		
Treehoppers+	1	
Twig Borers ²		
Wasps	L	l

Weevils ² such as	
White Pine Weevil	
Pales Weevil	
Diaprepes adults	
Orchid Weevil	
White flies	
Zimmerman pine moths	
Imported Fire Ants	0 16 - 0 32 fl oz per 1 000
Leafminers	sq ft
Pecan Leaf Scorch Mite	
Pine Shoot Beetle (Adults)	(7 2 – 14 4 fl oz per 100
Spider Mites ³	gallons)

For foraging ants

BROADCAST SPRAYS TO TURFGRASS (including lawns golf courses, sod farms parks etc)

Apply LIBERTY BIFENTHRIN 2 EC as a broadcast treatment. Use higher volumes up to 10 gallons of carrier per 1000 square feet to get uniform coverage when treating dense grass foliage.

For low water volume usage less than 2 gallons/1000 square feet add a non ionic or silicone based surfactant (0 25% v/v) irrigation to treated area within a few hours following application can improve efficacy to listed sub surface pests **Restrictions**

In New York State this product may NOT be applied to any grass or turf area within 100 feet of a water body (lake pond river stream wetland or drainage ditch)

In New York State do make a single repeat application of this product if there are signs of renewed insect activity but not sooner than two weeks after the first application

Spray Drift Precautions (For Turf & Ornamental Uses)

Do not apply when wind conditions laver downwind drift to nearby water bodies

Do not apply when wind velocity exceeds 10 miles per hour Avoid application when wind gusts approach 10 mph

Apply using nozzles that provide the largest droplet size compatible with adequate coverage

Turfgrass Application Rates

The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. However, at the discretion of the applicator LIBERTY BIFENTHRIN 2 EC may be applied at up to 0.32 fl oz per 1000 square feet to control each of the pests listed in this table. The higher application rates should be used when maximum residual control is desired or heavy pest populations occur

PEST	RATES				
Armyworms ¹	0 05 to 0 08 fl oz per 1 000 sq ft				
Cutworms ¹ Sod Webworm ¹					
Annual Bluegrass Weevil (<i>Hyperodes</i>) (Adult) ² Banks Grass Mite ⁶ Billbugs (Adult) ³ Black Turfgrass Ataenius (Adult) ⁴ Crickets Earwigs Fleas (Adult) Grasshoppers Mealybugs Mites ⁶	0 08 to 0 16 fl oz per 1 000 sq ft				
Ants Chinch Bugs ⁵ Fleas (Larvae) ⁷ Imported Fire Ants ⁸ Japanese Beetle (Adult) Mole Cricket (Adult) ⁹ Mole Cricket (Nymph) ¹⁰ Ticks ¹¹	0 16 to 0 32 fl oz per 1 000 sq ft				

Armyworms Cutworms and Sod Webworms To ensure optimum control delay watering (irrigation) or mowing for 24 hours after application. If the grass area is being maintained at a mowing height of greater than 1 inch then higher application rates (up to 0.32 fluid oz per 1000 square teat) may be required during periods of high pest pressure

² Annual Bluegrass Weevil (Hyperodes) adults Applications should be timed to control adult weevils as they leave their

overwintering sites and move into grass areas This movement generally begins when Forsythia is in full bloom and con cludes when flowering dogwood (Carnes florida) is in full bloom Consult your State Cooperative Extension Service for more specific information regarding application timing

³ Billbug adults Applications should be made when adult billbugs are first observed during April and May Degree day models have been developed to optimize application timing Consult your State Cooperative Extension Service for information specific to your region. In temperate regions spring applications targeting billbug adults will also provide control of over wintered chinch bugs.

⁴ Black Turfgrass Ataenius adults Applications should be made during May and July to control the first and second generation of black turfgrass ataenius adults respectively. The May application should be tamed to coincide with the full bloom stage of Vanhoutte spiraea (Spiraea vanhouttei) and horse chestnut (Aesculus hippocastanum). The July application should be timed to coincide with this blooming of Rose of Sharon (Hibiscus syriacus).

⁵ **Chinch Bugs** Chinch Bugs infest the base of grass plants and are often found in the thatch layer Irrigation of the grass area before treatment wi¹ optimize the penetration at the insecticide to the area where the chinch bugs are located. Use higher volume applications if the thatch layer is excessive or if a relatively long mowing height is being maintained. Chinch bugs can be one of the most difficult pests to control in grasses and the higher application rates (up to 0.32 fluid oz per 1000 square feet) may be required to control populations that contain both nymphs and adults during the middle of the summer

⁶ Mites To ensure optimal control of eriophyid mites apply in combination with the labeled application rate of a surfactant A second application five to seven days after the first may be necessary to achieve acceptable control

⁷ **Flea larvae** Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Use a higher volume application when treating these areas to ensure penetration of the insecticide into the soil. Note if the lawn area is being treated with this product at 0.08 fluid ea per 1000 square feet for adult flea control, then the larval application rate may be achieved by increasing the application volume two to four fold

⁸ **Imported Fire Ants** Control will be optimized by combining broadcast applications that will control foraging workers and newly mated fly in queens with mound drenches that will control existing colonies. If the soil is not moist, then it is important to irrigate before application or use a high volume application. Broadcast treatments should apply 0.32 fluid oz per 1.000 square feet. Treat mounds by diluting 0.05 fluid oz of LIBERTY BIFENTHRIN 2 EC per gallon of water and applying 1 to 2 gallons of finished spray per mound. The mounds should be treated with sufficient force to break their apex and allow the insecticide solution to flow into the ant tunnels. A four foot diameter cede around the mound should also be frosted. For best results apply in cool weather (65 80 F) or in early morning or late evening hours. Note a spray rig that is calibrated to apply 0.32 fluid oz per 1.000 square feet of this product in 5 gallons per 1.000 square feet contains the approximate dilution (0.05 fluid as per gallon) that is required for fire ant mound drenches in the spray tank.

⁹ **Mole Cricket adults** Achieving acceptable control of adult mole crickets is difficult because preferred grass areas are subject to continuous invasion during the early spring by this extremely active stage. Applications should be made as late in the day as **possible** and should be watered in with up to 0.5 inches of water immediately after treatment. If the soil is not moist then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized. Gross areas that receive pressure from adult mole crickets should be treated at peak egg hatch to ensure optimum control of subsequent nymph populations (see below).

¹⁰ **Mole Cricket nymphs** Grass areas that received intense adult mole cricket pressure in the sprang should be treated immediately prior to peak egg hatch. Optimal control is achieved at this time because young nymphs are more susceptible to insecticides and they are located near the soil surface where the insecticide is most concentrated. Control of larger more damaging nymphs later in the year may require both higher application rates and more frequent applications to maintain acceptable control. Applications should be made as late in the day as possible and should be watered in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized.

¹¹ **Ticks (including ticks that may transmit Lyme Disease and Rocky Mountain Spotted fever)** Do not make spot applications Treat the entire area where exposure to ticks may occur. Use higher spray volumes when treating areas with dense ground cover or heavy leaf liner. Ticks may be reintroduced from surrounding areas on host animals. Retreatment may be necessary to achieve and/or maintain control during periods of high past pressure. Repeat application is necessary.

only if there are signs of renewed activity Repeat application should be limited to no more than once per seven days **Deer ticks (bodes spp)** have a complicated life cycle that ranges over a two year period and involves four life stages Applications should be made in the late fall and/or early spring to control adult ticks that are usually located on brush or grass above the soil surface and in mid to late spring to control larvae and nymphs that reside in the soil and leaf litter **American dog ticks** may be a considerable nuisance in suburban settings particularly where homes are built on land that was previously field or forest. These ticks commonly congregate along paths or roadways where humans are likely to be encountered Applications should be made as necessary from mid spring to early tall to control American dog tick larvae nymphs and adults.

LIBERTY BIFENTHRIN 2 EC LAWN DILUTION CHART										
Application	Application	Fluid Ounces (mL) of LIBERTY BIFENTHRIN 2 EC diluted to the Volumes of Finished								
Volume	Rate	Spray								
Gallons/	FI Oz /		llon		llons	10 Gallons		100 Gallons		
1000 sq_ft	1000 sq_ft	FI oz	mL	FI oz	mL	FI oz	mL	FI oz		
1	0 05	0 05	1 48	0 25	7 39	0 50	14 8	5 00		
1	0 08	0 08	2 37	0 40	11 83	0 80	23 7	8 00		
1	0 16	0 16	4 73	080	23 66	1 60	47 3	16 00		
1	0 32	0 32	9 46	1 60	47 32	3 20	94 6	32 00		
2	0 05	0 025	0 74	0 13	3 70	0 25	74	2 50		
2	0 08	0 040	1 18	0 20	5 91	0 40	118	4 00		
2	0 16	0 080	2 37	0 40	11 83	0 80	23 7	8 00		
2	0 32	0 160	4 73	0 80	23 66	1 60	47 3	16 00		
3	0 05	0 017	0 49	0 08	2 46	0 17	49	1 67		
3	0 08	0 027	0 79	0 13	3 94	0 27	79	2 67		
3	0 16	0 053	1 58	0 27	7 89	0 53	15 8	5 33		
3	0 32	0 107	3 15	0 53	15 77	1 07	31 5	10 67		
4	0 05	0 013	0 37	0 06	1 85	0 13	37	1 25		
4	0 08	0 020	0 59	0 10	2 96	0 20	59	2 00		
4	0 16	0 040	1 18	0 20	5 91	0 40	118	4 00		
4	0 32	0 080	2 37	0 40	11 83	0 80	23 7	8 00		
5	0 05	0 010	0 30	0 05	1 48	0 10	30	1 00		
5	0 08	0 016	0 47	0 08	2 37	0 16	47	1 60		
5	0 16	0 032	0 95	0 16	4 73	0 32	95	3 20		
5	0 32	0 064	1 89	0 32	9 46	0 64	18 9	6 40		
10	0 05	0 005	0 15	0 03	0 74	0 05	15	0 50		
10	0 08	0 008	0 24	0 04	1 18	0 08	24	0 80		
10	0 16	0 016	0 47	0 08	2 37	0 16	47	1 60		
10	0 32	0 032	0 95	0 16	4 73	0 32	95	3 20		

Attention

Do not apply to pets crops or sources of electricity

Firewood is not to be treated

Do not allow spray to contact food foodstuffs food contacting surfaces food utensils or water supplies Do not apply this pesticide in livestock buildings (barns)

Keep children and pets off treated areas following application until the spray has dried

Do not apply by air

Do not use in greenhouses

Do not apply this product through any type of irrigation system. Do not apply when a temperature inversion exists

Do not apply for surface feeding pests if rain is expected within 12 hours (or whatever time is necessary for the spray to dry)

For turf treatment apply with nozzles not more than 2 feet above the grass

Do not apply within 25 feet of lakes reservoirs rivers permanent streams marshes or natural ponds estuaries and commercial fish farm ponds

Do not apply when grass areas are water logged or the soil is saturated with water (i.e. will not accept irrigation) Vinyl and Aluminum Siding Do not spray directly onto vinyl or aluminum siding If LIBERTY BIFENTHRIN 2 EC

inadvertently contacts vinyl and aluminum siding (particularly lightly colored aged weathered or otherwise damaged) Page 32 of 34

Bracketed Text [] Optional Marketing Statements

It may result in staining bleaching or discoloration. Wash off thoroughly with detergent and water. Factors such as extreme heat and direct sunlight can promote damage when using emulsifiable concentrates. Avoid application to vinyl or aluminum siding while exposed to direct sunlight or during the heat of the day.

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal

PESTICIDE STORAGE AND SPILL PROCEDURES Keep out of reach of children and animals Store in original containers only in a cool dry place and avoid excess heat Do not freeze Do not store below 40[°] F Carefully open containers

If crystals are observed warm material to above 60⁰F by placing container in warm location Shake or roll container periodically to redissolve solids

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 **To confine spill** If liquid dike surrounding area or absorb with sand cat litter or commercial clay. If dry material cover to prevent dispersal. 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

DISPOSAL STATEMENTS

Nonrefillable container Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate) After emptying and cleaning it may be allowable to temporarily hold rinsate or other pesticide related materials in the container Contact your state regulatory agency to determine allowable practices in your state. Once cleaned some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site contact your chemical dealer or manufacturer or contact. The Agricultural Container Recycling Council (ACRC) at www acrecycle org

Triple rinse or pressure rinse container (or equivalent) promptly after emptying If recycling is not available puncture and dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities by burning. If burned stay out of smoke

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

For packages greater than 5 gallons and less than 56 gallons Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container ¼ full with water Replace and tighten closures Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds Stand the container on its end and tip it back and forth several times 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.

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

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

CONDITION 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.

LIBERTY CROP PROTECTION LLC 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 subject to the inherent risks referred to above when used in accordance with directions under normal use conditions This warranty does not extend to the use of this product contrary to label instructions or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or LIBERTY CROP PROTECTION LLC and Buyer and User assume the risk of any such use TO THE EXTENT CONSISTENT WITH APPLICABLE LAW LIBERTY CROP PROTECTION LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE

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