U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505T)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

NOTICE OF PESTICIDE:
_X_ Registration
___ Reregistration
(under FIFRA, as amended)

EPA Reg. Number:	Date of Issuance:
2749-640	4/10/24

Term of Issuance:
Conditional

Name of Pesticide Product:
Aceto Bifenthrin 2E

Name and Address of Registrant (include ZIP Code):

John Wright
Aceto Life Sciences, LLC
4 Tri Harbor Court
Port Washington, NY 11050

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Continues page 2

Signature of Approving Official:

Scott Campbell, Acting Product Manager 03
Invertebrate and Vertebrate Branch 1, Registration Division (7505T)

Date: 4/10/24

EPA Form 8570-6

2. You are required to comply with the data requirements described in the generic data call-in (GDCI) identified below:

    a. Bifenthrin GDCI-128825-1159
    b. Bifenthrin GDCI-128825-902
    c. Bifenthrin GDCI-097805-1100

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

3. Be aware that proposed data requirements have been identified in a proposed generic data call-in (GDCI). For more information on these proposed data requirements, you may contact the Chemical Review Manager in the Pesticide Re-Evaluation Division: http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1

4. Make the following label changes before you release the product for shipment:

    - Revise the EPA Registration Number to read, "EPA Reg. No. 2749-640."

5. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance. If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF(s):

- Basic CSF dated 06/28/2023
- Alternate CSF 1 dated 06/28/2023
- Alternate CSF 2 dated 06/28/2023
- Alternate CSF 3 dated 06/28/2023
- Alternate CSF 4 dated 06/28/2023

- Alternate CSF 5 dated 06/28/2023
- Alternate CSF 6 dated 06/28/2023
- Alternate CSF 7 dated 06/28/2023
- Alternate CSF 8 dated 06/28/2023
- Alternate CSF 9 dated 06/28/2023
- Alternate CSF 10 dated 06/28/2023
- Alternate CSF 11 dated 06/28/2023
- Alternate CSF 12 dated 06/28/2023
- Alternate CSF 13 dated 06/28/2023
- Alternate CSF 14 dated 06/28/2023
- Alternate CSF 15 dated 06/28/2023
- Alternate CSF 16 dated 06/28/2023
- Alternate CSF 17 dated 06/28/2023
- Alternate CSF 18 dated 06/28/2023

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

Enclosure

RESTRICTED USE PESTICIDE

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

BIFENTHRIN	GROUP 3A	INSECTICIDE

Aceto Bifenthrin 2E

For use on artichokes, brassica crops, caneberries, canola, crambe, rapeseed, Christmas trees, cilantro, conifer seed orchards, coriander, citrus, corn (field, popcorn and sweet), cotton, cucurbits, dried beans and peas, fruiting vegetables, garden beets, grapes, hops, leafy brassicas and turnip greens, lettuce (head), mayhaw, okra, peanut, pears, roots crops, soybean, spinach, strawberries, succulent peas and beans, tobacco, tomato and tomatillo, tree nut crop and tuberous and corm vegetables.

ACCEPTED
04/10/2024
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 2749-640

For Outdoor Use Only

Active Ingredient:	**By Wt.**
Bifenthrin*	25.1%
Other Ingredients:**	74.9%
TOTAL	100.0%

*Cis isomers 97% minimum, trans isomers 3% maximum.
**Contains petroleum distillates
This product contains 2 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN
WARNING AVISO

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

This label must be in the possession of the user at the time of application.

FIRST AID	
If swallowed	• Immediately call a poison control center or doctor. • **DO NOT** induce vomiting unless told to do so by the 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 eye. • 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.
If on skin or clothing	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
NOTE TO PHYSICIAN	
This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase	

absorption and so should be avoided. Contains petroleum distillates. Vomiting may cause aspiration pneumonia.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL CHEMTREC® TOLL FREE 1-800-424-9300 or 1-703-527-3887 (24 Hours per Day, 7 Days per Week). .

FOR CHEMICAL SPILL, LEAK, FIRE, EXPOSURE OR MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL CHEMTREC® TOLL FREE 1-800-424-9300 or 1-703-527-3887 (24 Hours per Day, 7 Days per Week). .

EPA Registration No. 2749-AUN

Manufactured For:
Aceto Life Sciences, L.L.C. d/b/a Actylis
4 Tri Harbor Court
Port Washington, NY 11050

EPA Est. No. xxx
Net Contents: 2.5 Gals. (9.46 Liters)
1Gal. (3.78 liters)
30 Gals (113.55 Liters)
55 Gals. (xxx Liters)

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

WARNING AVISO

WARNING. May be fatal if swallowed. Causes substantial but temporary eye injury. DO NOT get into eyes or on clothing. Wear protective eyewear, goggles or safety glasses. Harmful if inhaled or absorbed through skin. Avoid breathing vapor or spray mist. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE):
Some materials that are chemical-resistant to this product are listed below.

Applicators and handlers must wear:
- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), or Viton (≥ 14 mils)
- Shoes plus socks
- Protective eyewear

Mixers and loaders supporting aerial applications to cotton must wear at a minimum:
- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), or Viton (≥ 14 mils)
- Shoes plus socks

Mixers, loaders and applicators using mechanically pressurized handguns for applications to tuberous and corm vegetables must wear at a minimum:
- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), or Viton (≥ 14 mils)
- Shoes plus socks

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

- Long-sleeved shirt and long pants,
- Chemical-resistant gloves made of barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), or Viton (≥ 14 mils),
- Shoes plus socks

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

Engineering Controls:
When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)) the handle PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if drenched or if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.
- Remove PPE immediately after handling this product. Wash the outside of chemical-resistant gloves made of barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), or Viton (≥ 14 mils) 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. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. To protect the environment, **DO NOT** allow pesticide to enter run-off into storm drains, drainage ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

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

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

Physical/Chemical Hazards

DO NOT use or store near oxidizing or reducing agents.

DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE

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

DO NOT apply this product 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.

Apply this product only as specified on this label.

Resistance Management
For resistance management, Aceto Bifenthrin 2EC contains a Group 3A insecticide. Any insect population may contain individuals naturally resistant to Aceto Bifenthrin 2EC and other Group 3A insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same fields. Appropriate resistance-management strategies should be followed. To delay insecticide resistance, take the following steps:

- Rotate the use of Aceto Bifenthrin 2EC or other Group 3A insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. **DO NOT** rely on the same mixture repeatedly for the same pest population. Consider any known cross resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):

    - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
    - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
    - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pests.
    - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
    - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticidal activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticides that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological, and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.

AGRICULTURAL USE REQUIREMENTS

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

DO NOT enter or allow worker entry into treated areas during 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, including plants, soil, or water, is: coveralls; chemical-resistant gloves made of barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), or Viton (≥ 14 mils); and shoes plus socks.

Application Instructions
Rate of application is variable according to pest pressure, timing of sprays, and field scouting. Use lower label rates under light to moderate infestations; higher label rates under heavy insect pressure and for mite control. Arid climates normally require higher label rates.

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

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 a Low Energy Precision Application (LEPA) irrigation a minimum of 0.75 inch of water per acre is required. Where non-emulsified oils are used as the diluent, apply 1 to 2 pints per acre.

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 operations, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments if the need arises. Failure to cease application during a mechanical stoppage may result in undesirable residues to adjacent areas.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to

prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

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

Systems must use a metering pump, for example a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

DO NOT apply when wind speed favors drift beyond the area intended for treatment.

Apply this product continuously for the duration of the water application. Dilute this product 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 required. Agitation normally is not required when a suitable diluent is used. Conduct a compatibility test to ensure that phase separation will not occur during dilution and application. Failure to achieve a uniform dilution throughout the time of application may result in undesirable residues or less than desirable control.

MANDATORY SPRAY DRIFT MANAGEMENT

Aerial Applications:

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

Airblast Applications:

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

Ground Boom Applications:

- User must only apply with the nozzle height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to select nozzle and pressure that deliver medium or coarser droplets (ASABE S572).
- **DO NOT** apply when wind speeds exceed 5 mph at the application site.
- **DO NOT** apply during temperature inversions.

SPRAY DRIFT ADVISORIES

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

IMPORTANCE OF DROPLET SIZE

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

Controlling Droplet Size – Ground Boom

- **Volume -** Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- **Pressure -** Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- **Spray Nozzle -** Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

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

BOOM HEIGHT – Ground Boom

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

RELEASE HEIGHT - Aircraft

- Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

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

TEMPERATURE AND HUMIDITY

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

TEMPERATURE INVERSIONS

- Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

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

Handheld Technology Applications:

- Take precautions to minimize spray drift.

VEGETATIVE FILTER STRIPS

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

Only apply products containing bifenthrin onto fields where a maintained vegetative filter strip of at **least 25 feet** exists between the field edge and where a down gradient aquatic habitat exists.

This minimum required width of 25 feet may be reduced or removed under the following conditions:

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

For further guidance on vegetated filter strips, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. https://www.regulations.gov/document?D=EPA-HQ-OPP2008-0331-0175.

BUFFER ZONES to WATER BODIES

Buffer Zone for Ground Application (ground boom, overhead chemigation, or airblast)
DO NOT apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

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, 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, ponds, estuaries, and commercial fish ponds)

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.

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

Tank-Mixtures
Apply Aceto Bifenthrin 2E in combination with other products that are registered for the same crop and application techniques. For current information on the best tank mixture partner in your area, consult with the local dealer, distributor or State Agricultural Extension service.

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

The user assumes the responsibility for following all label use directions.

If Aceto Bifenthrin EC is to be tank mixed with other products, conduct a compatibility test prior to mixing. Use a small container and mix all components in a small amount, usually 0.5 to 1qt. of spray mixture. Combine all products in the same ratio and order of addition as in the proposed spray mixture. Observe the mixture for indication of incompatibility which usual occurs in 10 to 30 minutes after mixing. If incompatibility is observed, try changing the order of addition of the components. THe normal guideline on tank mixture partners is driven by formulation type. Start with wettable powders (WP's) including water soluble bags (WSB's), water dispersible granules (WDG's), suspension concentrated (SC's) or flowable (F's), all with very good agitation. Next follow with water miscible concentrates and emulsifiable concentrates (EC's) before adding drift control additives, wetting agents, surfactants or crop oil concentrates (COC's). After vigorous agitation, there should be a homogeneous suspension. Let the final tank mixture stand and observe for any rapid settling or floating of components. If any indications of physical incompatibility develop, **DO NOT** use this mixture for spraying.

Pre-Harvest Interval
The pre-harvest interval (PHI) is the required days between the last application of Aceto Bifenthrin 2E and the harvesting of the crop. This is listed next to each crop below as (PHI – Days).

Use Rate Equivalency
The use rate for Aceto Bifenthrin 2E is expressed in terms of the fluid ounces (fl. oz.) of product per acre and pounds active ingredient (lb. ai) per acre. This product contains 2 pounds active ingredient per gallon. The following table expresses the use rate equivalency of fl. oz. of this product in terms of lb. ai on per acre basis.

fl. oz. per acre	lb. ai per acre
1.0	0.0156
1.3	0.02
2.1	0.033
2.6	0.04
3.2	0.05
3.8	0.06
4.0	0.062
5.12	0.08
6.4	0.1
12.8	0.2
16	0.25
19.2	0.3
32	0.5

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

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

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

ARTICHOKES (PHI – 5 Days)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
artichoke plume moth cribrate weevil	6.4 fl. oz. per acre (0.1 lb. ai per acre)	Apply when pest population reaches damaging threshold. Repeat as necessary to maintain control, but not more often than 15 day intervals. Application by ground: Apply a full coverage 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** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.5 lb. ai/A (32 fl. oz./A) per year.
- **DO NOT** make more than 5 applications per year.
- Minimum re-treatment interval (RTI) is 15 days.
- **DO NOT** apply within 5 days of harvest.

BRASSICA CROPS (PHI – 7 Days)

head and stem brassica vegetables including: broccoli, Brussels sprouts, cabbage, cauliflower, cavalo broccolo, Chinese broccoli (gai lon, white flowering broccoli), Chinese cabbage (napa), Chinese mustard cabbage (gai choy), kohlrabi

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
Aphids armyworms corn earworm crickets cucumber beetles cutworms diamondback moth flea beetles ground beetles imported cabbageworm leafhoppers loopers saltmarsh caterpillar stink bugs thrips tobacco budworm whitefly wireworm (adults)	2.1 to 6.4 fl. oz. per acre (0.033 to 0.1 lb. ai 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, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray.
Banks grass mite carmine mite *Lygus spp*. Pacific spider mite two-spotted spider mite	5.12 to 6.4 fl. oz. per acre (0.08 to 0.1 lb. ai per acre)	

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.5 lb. ai/A (32 fl. oz./A) per year.
- **DO NOT** make more than 5 applications after bloom.
- **DO NOT** make applications less than 7 days apart.
- **DO NOT** apply within 7 days of harvest.

CANEBERRIES (PHI – 3 Days)

bingleberries, blackberries, dewberries, loganberries, lowberries, marionberries, olallieberries, raspberries, youngberries

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
leafrollers orange tortrix root weevils	3.2 to 6.4 fl. oz. per acre (0.05 to 0.1 lb. ai per acre)	Apply in a minimum of 50 gallons of finished spray per acre by ground equipment or in a minimum of 10 gallons per acre by air. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. One application may be made pre-bloom and a second application may be made post bloom. For crown borer, use as a drench application at rate of 0.1 lb. ai /a, post-harvest (fall) or pre-bloom (spring). Apply the drench application directly at the crown of plants in a minimum of 200 gallons water per acre. Use higher water gallonage (up to 400 gallons/a) or in an application prior to a significant rainfall event. Greater efficacy is observed at higher water gallonage (up to 400 gallons/a) or in an application prior to a significant rainfall event.
raspberry crown borer spider mites	6.4 fl. oz. per acre (0.1 lb. ai per acre)	

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.2 lb. ai/A (12.8 fl. oz./A) per year.
- **DO NOT** make more than 2 applications per year.
- **DO NOT** make both pre-bloom foliar and pre-bloom drench applications.
- **DO NOT** apply within 3 days of harvest.

CANOLA, CRAMBE, RAPESEED (PHI – 35 Days)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
aphids armyworms cutworms diamondback moth flea beetle flea hopper grasshopper loopers other lepidopterous larvae plant bug	2.1 to 2.6 fl. oz. per acre (0.033 to 0.04 lb. ai per acre)	Apply in a minimum of 10 gallons per acre with ground equipment or a minimum of 2 gallons per acre of finished spray by air. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray.

seedpod weevil stink bugs thrips whitefly		

RESTRICTIONS

- **DO NOT** apply more than 0.04 lb. ai/A (2.6 fl. oz./A) per application.
- **DO NOT** apply more than 0.08 lb. ai/A (5.12 fl. oz./A) per year.
- **DO NOT** make more than 2 applications per year.
- **DO NOT** make applications less than 14 days apart.
- **DO NOT** apply within 35 days of harvest.

Christmas Trees

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
Root weevil Spruce spider mite	3.9 to 6.4 fl. oz. per acre (0.06 to 0.1 lb. ai per acre)	Apply in a minimum of 20 gallons per acre with ground equipment or a minimum of 5 gallons per acre of finished spray by air. The product is normally not phytotoxic to Christmas trees. Since all varieties grown under local climatic conditions may be hardy to this product, test a small area of typical plants to ensure that no injury occurs.

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.2 lb. ai/A (12.8 fl. oz./A) per year.
- **DO NOT** make more than 2 foliar applications of bifenthrin (all products) per year.
- **DO NOT** make applications less than 21 days apart.
- **DO NOT** make applications through irrigation systems.

CILANTRO, CORIANDER (PHI – 3 Days)

PEST	Rate	APPLICATION INSTRUCTIONS AND PRECAUTIONS
aphids beet armyworm cabbage looper cutworm flea beetle grasshoppers leafminer saltmarsh caterpillar spotted cucumber beetle thrips whitefly	2. 1 to 6.4 fl. oz. per acre (0.033 to 0.1 lb. ai per acre)	Apply in a minimum of 10 gallons per acre with ground equipment or a minimum of 2 gallons per acre of finished spray by air.
two-spotted spider mite	5.12 to 6.4 fl. oz. per acre (0.08 to 0.1 lb. ai per acre)	

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.5 lb. ai/A (32 fl. oz./A) per year.
- **DO NOT** make more than 5 applications per year.
- **DO NOT** make applications less than 7 days apart.
- **DO NOT** apply within 3 days of harvest.

CITRUS FRUIT Group 10-10 * (PHI – 1 Day)

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

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
diaprepes root weevil (*Diaprepes abbreviatus)* southern blue green root weevil *(Pachnaeus litus)* blue green citrus root weevil (*Pachnaeus opalus)* brown leaf notcher *(Epicarus mexicanus*) little leaf notcher (*Artipus floridanus)*	16-32 fl. oz. per acre (0.25 to 0.5 lb. ai per acre)	Use ground equipment to uniformly apply this product to the bare soil beneath citrus trees from the tree trunk to the drip line. Apply a minimum of 40 gallons of spray mixture per area. Greater spray volume should insure greater uniformity of coverage. A pre- and post-application irrigation may aid in the uniformity of coverage as well. Timing of product application is critical. Accurate forecast of application timing is made by observing adults. Adults are most active in the early morning hours and late afternoon hours. Use traps to estimate numbers throughout the typical spring and summer emergence periods. Egg laying occurs for 8 to 10 weeks following adult emergence from the soil. Neonates drop to the soil about 2 to 3 weeks after adult emergence. The ideal time to apply the insecticide barrier is just before the neonates burrow into the soil. Peak emergence of adult diaprepes root weevil varies by geographic region depending on the climatic weather conditions, especially soil moisture. The primary diaprepes root weevil peak emergence typically occurs in spring. A minor emergence of diaprepes root weevil also occurs in late summer or early fall depending on climatic weather conditions. Southern blue-green citrus root weevil and blue-green citrus root weevil typical exhibit a single peak emergence in the spring. Brown leaf notcher and little leaf notcher typical exhibit 3 emergences which varies seasonally and by location. This product is used to form an insecticide soil barrier around citrus tree roots to protect from diaprepes root weevil and other citrus weevil feeding. The newly hatched larvae (neonates) are controlled by contact with the treated soil. The life cycle of the citrus root weevils starts with egg hatch in new foliage. The neonates fall to the soil surface beneath the tree. As the neonates burrow into the root zone, they come in contact the insecticide soil barrier. Minimize soil disturbance after treatment beneath the trees to maintain a continuous soil barrier. This product use to create an insecticide soil barrier. This is one tool as part of an integrated pest management (IPM) program for control of citrus root weevils. Apply this product in conjunction with good cultural practices, biological control of larvae and foliar

		control of adults. For the latest IPM information to protect citrus trees from citrus root weevils and other pest, consult with local State Agricultural Extension service for suggested practices suited for local conditions. Apply to individual citrus resets, when not in solid planted rows, using hand-gun or shielded sprayer. Peak emergence of Diaprepes root weevil typically occurs in the spring. Depending on weather conditions, a minor emergence of Diaprepes root weevil may also occur in the fall. If the citrus grove to be treated is in an area where weather conditions are conducive to primary emergence occurring in the spring, use 32 fl. oz. of this product to obtain the longest residual management of Diaprepes root weevil. If the citrus grove to be treated is in an area where weather conditions will promote more than one peak of pest emergence, 16 fl. oz. formulated product can be applied early season and 16 fl. oz. formulated product can be applied later in the year. Apply the specified dosage in a minimum of 40 gallons of finished spray per acre.
fire ant (Solenopsis spp.) Asian cockroach *(Blattella asahinae*)	6.4-16 fl. oz. per acre (0.1 to 0.25 lb. ai per acre)	.

RESTRICTIONS

- **DO NOT** apply more than 0.5 lb. ai/A (32 fl. oz./A) per application and **DO NOT** apply more than 0.25 lb. ai/A (16 fl. oz./A) per application for control of Fire ants and Asian Cockroach.
- **DO NOT** apply more than 0.5 lb. ai/A (32 fl. oz./A) per year.
- **DO NOT** make more than 1 application per year.
- **DO NOT** apply within 1 day of harvest.
- **DO NOT** apply through irrigation systems.
- **DO NOT** allow any application of this product to contact fruit or foliage.
- Ground application only.
- **DO NOT** apply by air.

* Not for Use in California.

CITRUS (For Use in California) (PHI – 1 Day)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
diaprepes root weevil (*Diaprepes abbreviatus)* *fire ant (Solenopsis spp.)* Asian cockroach *(Blattella asahinae*)	16-32 fl. oz. per acre (0.25 to 0.5 lb. ai per acre)	Use hand-gun or shielded sprayers to apply spray mixture to individual citrus resets. The primary diaprepes root weevil peak emergence typically occurs in spring. A minor emergence of diaprepes root weevil also occurs in late summer or early fall depending on climatic weather conditions. Use this product at 32 fl. oz. per acre if growing area is in a geographic region conducive to primary diaprepes root weevil emergence. This will provide longest residual control of diaprepes root weevil. If growing area is in geographic region that will favor more than one peak emergence of diaprepes root weevil, use this product at 16 fl. oz. per acre in split applications early in the growing season and later in the season. If the emergence of diaprepes root weevil is beyond the length of the residual control of this product additional management strategies, i.e. foliar adult control or soil larvae control, e.g. nematodes are to be employed by the grower. Consult with local State Agricultural Extension service for suggested practices suited for local conditions. Use a minimum of 30 gallons of spray mixture per acre. Ground application only.

RESTRICTIONS

- **DO NOT** apply more than 0.5 lb. ai/A (32 fl. oz./A) per application.
- **DO NOT** apply more than 0.25 lb. ai/A (16 fl. oz./A) per application for control of Fire ants and Asian Cockroach.
- **DO NOT** apply more than 0.5 lb. ai/A (32 fl. oz./A) per year.
- **DO NOT** make more than 1 application per year.
- **DO NOT** apply within 1 day of harvest.
- **DO NOT** apply through irrigation systems.
- **DO NOT** allow any application of this product to contact fruit or foliage.
- Ground application only.
- **DO NOT** apply by air.

Conifer Seed Orchards

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
cone worms seed bugs seed worms	6.4 to 12.8 fl. oz. per acre (0.1 to 0.2 lb. ai per acre)	Apply in a minimum of 100 gallons per acre with ground equipment or a minimum of 10 gallons per acre of finished spray by air. When applying by air, 2 quarts of emulsified oil may be substituted for 2 quarts of water in the finished spray. Start the initial application 7 days after peak pollen flight and continue on 30-day intervals. For use only in AL, AR, FL, GA, LA, MS, OK, SC, TN, TX & VA.

RESTRICTIONS

- **DO NOT** apply more than 0.2 lb. ai/A (12.8 fl. oz./A) per application.
- **DO NOT** apply more than 0.6 lb. ai/A (38.4 fl. oz./A) per year.
- **DO NOT** make more than 6 applications at reduced rates per year.
- **DO NOT** make applications less than 30 days apart.

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (AT PLANT USE) (PHI – 30 Days)

Row spacing (inches)	40	38	36	30
Aceto Bifenthrin 2E (pounds ai per acre)	0.06	0.064	0.069	0.08
Aceto Bifenthrin 2E (formulated ounces per acre)	3.9	4.1	4.4	5.12

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
corn rootworm larvae (Mexican, northern, southern, western)	0.30 fl. oz. (0.0046 lb. ai) 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 above to determine the product needs per acre. Apply in a minimum of 3 gallons of finished spray per acre. (3 gallons per acre is approximately 0.2 gallons per 1000 linear feet of row at 36 inch spacing). Mix this product with water or fertilizer in the following manner. Fill the spray tank approximately one-half full with water or liquid fertilizer, add the proper amount of this product, then add the rest of the water or fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform spray mixture. Applications of this product alone or in tank mixtures, in conjunction with in furrow pop-up fertilizers may be used. Conduct a jar compatibility test with appropriate ratio of this product and fertilizer to ensure mixture will stay in solution. Maintain constant agitation during mixing and application.
army cutworm other cutworm species grubs seed corn beetle seed corn maggot true armyworm other armyworm species wireworm	0.15 to 0.30 fl. oz. (0.0023 to 0.0046 lb. a.i.) per 1,000 linear feet of row	

RESTRICTIONS

- **DO NOT** apply to soil where there is greater than 30% cover of crop residue remaining.
- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application as an at-plant application.
- **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.

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED Preplant Incorporated (PPI) & Preemergence (PRE)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
armyworm spp. black cutworm seedcorn maggot	3 to 4 fl. oz. per acre **PPI** (0.047 to 0.062 lb. ai / acre)	The 3-4oz/A rate must be applied as PPI and can be tank mixed and applied with PPI herbicides. **DO NOT** incorporate this product

stalkborer white grubs wireworm		any deeper than the intended planting depth and no deeper than 3 inches. The incorporation depth is to be close to the intended seed planting depth.
armyworm spp. black cutworm stalkborer	2.56 fl. oz. per acre (0.04 lb. ai / acre) **PRE**	The 2.56 oz. /A rate may be applied PRE and can be tank mixed and applied with PRE herbicides.

RESTRICTIONS

- **DO NOT** apply more than 0.062 lb. ai/A (4 fl. oz./A) per application as a PPI application.
- **DO NOT** apply more than 0.04 lb. ai/A (2.56 fl. oz./A) per application as a PRE application.
- **DO NOT** apply more than 0.3 lb. ai/A per year including at-plant, PRE, PPI, and 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.

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED
(Foliar use) (PHI – 30 Days)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
aphid army cutworm beet armyworm cereal leaf beetle chinch bug common stalk borer corn earworm corn rootworm adults cucumber beetle adults cutworm species European corn borer fall armyworm flea beetle grasshoppers greenbug Japanese beetle adult leafhopper sap beetle southern armyworm southern corn leaf beetle southwestern corn borer stinkbugs tarnished plant bug thrips true armyworm or armyworm species webworms western bean cutworm yellowstriped armyworm	2.1 to 6.4 fl. oz. per acre (0.033 to 0.1 lb. ai / acre)	Apply in a minimum of 10 gallons per acre with ground equipment or a minimum of 2 gallons per acre of finished spray by air. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Under heavy pest pressure, use 5 gallons of spray mixture per acre. To control ear-attacking pests: Apply this product just before silking and repeat as necessary to maintain control. Southwestern corn borer, European corn borer: Make initial application at or shortly before egg hatch. For control of other listed insect pests, make initial application when pests first appear and repeat as necessary.
Banks grass mite carmine mite two-spotted spider mite	5.12 to 6.4 fl. oz per acre (0.08 to 0.1 lb. ai / 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 two-spotted spider mite and carmine mite control: Apply when colonies first form prior to leaf damage or discoloration and before wide-spread mite dispersal throughout the canopy. Higher label rates will be necessary for heavier initial populations and corn under heat or drought stress. Field experience with dimethoate at 0.5 lb. a.i. 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 10 gallons per acre with ground equipment or a minimum of 5 gallons per acre of finished spray by air.

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.3 lb. ai/A (19.2 fl. oz./A) per year including at-plant, PRE, PPI, and foliar applications.
- **DO NOT** make more than 3 foliar applications per year.
- **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 this product on corn is prohibited in all coastal counties.

SWEET CORN (GRAIN AND SILAGE)
SWEET CORN GROWN FOR SEED
(At plant use) (PHI – 30 Days)

Apply as directed in the following table at rates indicated. To calculate the amount of this product to use per acre based on row spacing refer to the conversion chart below.

Row Spacing (inches)	40	38	36	30
Aceto Bifenthrin 2E (pounds ai per acre)	.06	.064	.069	.08
Aceto Bifenthrin 2E (formulated ounces per acre)	3.9	4.1	4.4	5.12

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
corn rootworm larvae (Mexican, northern, southern, western)	0.3 fl. oz. per 1000 linear feet of row (0.0046 lb. ai per 1000 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 above to determine the product needs per acre. Apply in a minimum of 3 gallons of finished spray per acre. Mix this product with water or fertilizer in the following manner. Fill the spray tank approximately one-half full with water or liquid fertilizer, add the proper amount of this product,
army cutworm cutworm species grubs seed corn beetle seed corn maggot true armyworm or armyworm species wireworm	0.15 to 0.3 fl. oz. per 1000 linear feet of row (0.0023 to 0.0046 lb. ai per 1000 linear feet of row)	

		then add the rest of the water or fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform spray mixture. Applications of this product alone or in tank mixtures, in conjunction with in furrow pop-up fertilizers may be used. Conduct a jar compatibility test with appropriate ratio of this product and fertilizer to ensure mixture will stay in solution. Maintain constant agitation during mixing and application.

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A per year as an at-plant application.
- **DO NOT** apply within 30 days of harvest.
- **DO NOT** graze livestock in treated area or cut treated crops for feed within 30 days of treatment.
- **DO NOT** apply to soil where there is greater than 30% cover of crop residue remaining.

SWEET CORN (GRAIN AND SILAGE)
SWEET CORN GROWN FOR SEED
(Foliar use) (PHI – 1 Day)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
aphids army cutworm beet armyworm cereal leaf beetle chinch bug common stalk borer corn earworm corn rootworm adults cucumber beetle adult cutworm species European corn borer fall armyworm flea beetle grasshoppers greenbug Japanese beetle adult Leafhopper sap beetle southern armyworm southern corn leaf beetle southwestern corn borer stinkbugs tarnished plant bug true armyworm or armyworm species webworms western bean cutworm yellowstriped armyworm	2.1 to 6.4 fl. oz. per acre (0.033 to 0.1 lb. ai per acre)	Apply in a minimum of 10 gallons per acre with ground equipment or a minimum of 2 gallons per acre of finished spray by air. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control. To control ear-attacking pests: Apply this product when silking begins and repeat as necessary to maintain control. Southwestern corn borer, European corn borer: Make 2 applications for corn borer control with the initial application at or shortly before egg hatch. For control of other insect pests: Apply when pests first appear and repeat as necessary.
Banks grass mite carmine mite two-spotted spider mite	5.12 to 6.4 fl. oz per acre (0.08 to 0.1 lb. ai per acre)	Apply for Banks grass mites control when colonies first form from prior to leaf damage or discoloration and before dispersal above the

		bottom third of the plant. For two-spotted 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 label rates will be necessary for heavier initial populations and corn under heat or drought stress.

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.2 lb. ai/A (12.8 fl. oz./A) per year.
- **DO NOT** make more than 2 foliar applications per year.
- **DO NOT** apply within 1 day of harvest.
- **DO NOT** graze livestock in treated areas or cut treated crops for feed within 1 day 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.

COTTON (PHI – 14 Days)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
European corn borer soybean (banded) thrips tobacco thrips	1.3 to 6.4 fl. oz. (0.02 to 0.1 lb. ai) per acre	This product may be applied in water or refined vegetable oil (soybean/cottonseed). Application in Water: Apply in a minimum of 5 gallons per acre with ground equipment or 1 gallon per acre by aircraft. When applying by air, 1 quart of emulsified oil may be substituted for one quart of water in the finished spray. ULV Application: Apply the specified rate of this product in refined vegetable oil in a minimum of 1 quart of finished spray per acre with aircraft calibrated to give adequate coverage. To control boll weevil: Apply this product at an interval of 3 to 4 days until pest numbers are reduced to acceptable levels. To control mites and aphids**:** Apply when pests first appear. Repeat as necessary to maintain control. Higher label rates will be required once a damaging threshold is established.
boll weevil bollworm cabbage looper cotton aphid cotton fleahopper cotton leaf perforator cutworms fall armyworm *Lygus spp*. plant bugs saltmarsh caterpillar southern garden leafhopper stink bugs tobacco budworm whitefly yellow striped armyworm	2.6 to 6.4 fl. oz. (0.04 to 0.1 lb. ai) per acre	
beet armyworm carmine spider mite *Lygus spp*. pink bollworm two-spotted spider mite	3.8 to 6.4 fl. oz. (0.06 to 0.1 lb. ai) per acre	

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.5 lb. ai/A (32fl. oz./A) per year in all states except in California. For California, **DO NOT** apply more than 0.3 lb. ai/A (19.2 fl. oz./A) per year.
- **DO NOT** make more than 5 applications per year in all states except in California. For California, **DO NOT** make more than 3 applications per year.
- Minimum re-treatment interval (RTI) is 3 days.
- **DO NOT** apply within 14 days of harvest.

- **DO NOT** graze livestock in treated areas or cut treated crops for feed.
- **DO NOT** make more than 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one year.

CUCURBITS (PHI – 3 Days)

chayote (fruit), Chinese waxgourd (Chinese preserving melon), citron melon, cucumber, gherkin, gourd, edible (includes hyotan, cucuzza), (*Luffa spp*.) (includes hechima, Chinese okra), (Momordica spp.), (includes balsam apple, balsam pear, bitter melon, Chinese cucumber) muskmelon (hybrids and/or cultivars of *Cucumis melo*, includes: true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon Santa Claus melon, snake melon), pumpkin (*Cucurbita spp.),* summer squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), winter squash (includes: butternut squash, calabaza, Hubbard squash (*C. mixta; C. pepo)* includes acorn squash, spaghetti squash), watermelon (includes hybrids and or varieties of *Citrullis spp.*)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
aphids armyworms cabbage looper corn earworm cucumber beetles cutworm grasshopper leafhoppers melonworm pickleworm plant bug rindworm squash bugs squash vine borer stink bugs tobacco budworm	2.6 to 6.4 fl. oz. per acre (0.04 to 0.1 lb. ai per acre)	Apply in a minimum of 20 gallons per acre with ground equipment or a minimum of 5 gallons per acre of finished spray by air. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray.
Banks grass mite Carmine mite *Lygus spp.* two-spotted spider mite whitefly	5.12 to 6.4 fl. oz. per acre (0.08 to 0.1 lb. ai per acre	

RESTRICTIONS

- **DO NOT** appl more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.3 lb. ai/A (19.2 fl. oz./A) per year.
- **DO NOT** make more than 3 applications per year.
- **DO NOT** make more than 2 applications after bloom.
- **DO NOT** make applications less than 7 days apart.
- **DO NOT** apply within 3 days of harvest.

DRIED BEANS AND PEAS (PHI – 14 Days)

Dried cultivars of: bean (Lupins), bean (*Phaseolus spp.*), field bean, kidney bean, lima bean(dry), navy bean, pinto bean, tepary bean, bean (thrips *Vigna spp.*), adzuki bean, blackeyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, broad bean (dry), chickpea, guar, lablab bean, lentil, pea (*Piscum spp.*), field pea, pigeon pea

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
aster leafhopper flea beetle grasshopper leafhoppers	1.6 to 6.4 fl. oz. per acre (0.025 to 0.1 lb. ai per acre)	Apply in a minimum of 10 gallons per acre with ground equipment or a minimum of 2 gallons per acre of finished spray by air. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray.
adult sap beetle adult thrips alfalfa caterpillar aphids bean leaf beetle beet armyworm cloverworm corn earworm loopers corn rootworm cucumber beetles cutworms European corn borer fall armyworm imported cabbage-worm Japanese beetle leafminer pea weevil pea leaf weevil plant bug saltmarsh caterpillar southern armyworm stink bugs tarnished plant bug tobacco budworm webworms western bean cutworm whitefly yellowstriped armyworm	2.1 to 6.4 fl. oz per acre (0.033 to 0.1 lb. ai per acre)	
Banks grass mite carmine mite *Lygus spp*. two-spotted spider mite	5.12 to 6.4 fl. oz per acre (0.08 to 0.1 lb. ai per acre)	

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.2 lb. ai/A (12.8 fl. oz./A) to peas, or 0.3 lb. ai/A (19.2 fl. oz./A) to beans per

year.
- **DO NOT** make more than 2 applications to peas and 3 applications to beans per year.
- **DO NOT** make applications less than 7 days apart.
- **DO NOT** apply within 14 days of harvest.

FRUITING VEGETABLES (PHI – 7 Days)

eggplant, pepper (bell & non-bell), groundcherry, pepino

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
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 bug stink bug thrips tomato hornworm tomato pinworm vegetable leafminer whitefly	2.1 to 6.4 fl. oz. per acre (0.033 to 0.1 lb. ai per acre)	Apply in a minimum of 10 gallons per acre with ground equipment or a minimum of 2 gallons per acre of finished spray by air. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray.
banks grass mite broad mite carmine mite *Lygus spp.* Pacific spider mite two- spotted spider mite	5.12 to 6.4 fl. oz. per acre (0.08 to 0.1 lb. ai per acre)	

RESTRICTIONS
- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.2 lb. ai/A (12.8 fl. oz./A) per year.
- **DO NOT** make more than 4 applications at reduced rates per year.
- **DO NOT** make applications less than 7 days apart.
- **DO NOT** apply within 7 days of harvest.

GARDEN BEET (PHI – 1 Day)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
aphids fire ants flea beetles lepidopterous larvae spider mites whitefly	5.12 to 6.4 fl. oz. per acre (0.08 to 0.1 lb. ai per acre)	Apply in a minimum of 25 gallons per acre with ground equipment or a minimum of 2 gallons per acre of finished spray by air.

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.4 lb. ai/A (25.6 fl. oz./A) per year.
- **DO NOT** make more than 4 applications per year.
- **DO NOT** make applications less than 7 days apart.
- **DO NOT** apply within 1 day of harvest.

GRAPES (PHI – 30 Days)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
cutworms eastern grape leafhopper grape berry moth Japanese beetles adults variegated leafhopper western grape leafhopper	3.2 to 6.4 fl. oz per acre (0.05 to 0.1 lb. ai / acre)	Apply in a minimum of 25 gallons per acre with ground equipment or a minimum of 10 gallons per acre of finished spray by air. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Use the higher label rate for moderate to severe pest pressure.
black vine weevil glassywinged sharpshooter two-spotted spider mite	6.4 fl. oz/ acre (0.1 lb. ai per acre)	

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per year.
- **DO NOT** make more than 1 application per year.
- **DO NOT** apply within 30 days of harvest.

HOPS (PHI – 14 Days)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
aphids armyworms cutworms leafrollers loopers	3.8 to 6.4 fl. oz per acre (0.06-0.1 lb. ai per acre)	Apply in a minimum of 100 gallons per acre (early season spray) or 200 gallons per acre (late season spray) with ground equipment. For root weevil control, apply a directed spray to the base of the plant. Spray up the vine 3 feet and the soil surface 1.5 to 2 feet on either side of the
root weevils	3.2 to 6.4 fl. oz per acre (0.05 to 0.1 lb. ai per acre)	

two-spotted spider mite	6.4 fl. oz per acre (0.1 lb. ai per acre)	plant. Application by air for late season control of two-spotted spider mites**:** Apply no less than 6.4 oz (0.1 lb. ai) per application in a minimum of 10 gallons per acre.

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.3 lb. ai/A (19.2 fl. oz./A) per year.
- **DO NOT** make more than 3 applications per year.
- **DO NOT** make applications less than 21 days apart.
- **DO NOT** apply within 14 days of harvest.
- Use of ultra low volume (ULV) application on hops is prohibited.

LEAFY BRASSICAS and TURNIP GREENS* (PHI – 7 Days)

broccoli raab, bok choy, collards, kale, mizuna, mustard greens, mustard spinach, rape greens, turnip greens

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
aphids armyworms corn earworm crickets cucumber beetles cutworms diamondback moth flea beetles grasshoppers ground beetles imported cabbage-worm Japanese beetle (adult) leafhoppers loopers saltmarsh caterpillar stink bugs thrips tobacco budworm whitefly wireworm (adults)	2.1 to 6.4 fl. oz. per acre (0.033 to 0.1 lb. ai per acre)	Apply in a minimum of 10 gallons per acre with ground equipment or a minimum of 2 gallons per acre of finished spray by air. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray.
Banks grass mite carmine mite *Lygus spp*. Pacific spider mite two-spotted spider mite	5.12 to 6.4 fl. oz. per acre (0.08 to 0.1 ai per acre)	

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.4 lb. ai/A (25.6 fl. oz./A) per year.
- **DO NOT** make more than 4 applications per year.
- **DO NOT** make applications less than 7 days apart.
- **DO NOT** apply within 7 days of harvest.

* Not for Use in California.

LETTUCE, HEAD (PHI – 7 Days)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
aphids armyworms corn earworm cucumber beetles cutworms diamondback moth flea beetles grasshopper imported cabbageworm leafhoppers loopers salt marsh caterpillar stink bug thrips tobacco budworm whitefly	2.1 to 6.4 fl. oz per acre (0.033 to 0.1 lb. ai per acre)	Apply in a minimum of 15 gallons per acre with ground equipment or a minimum of 5 gallons per acre of finished spray by air. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray.
carmine mite *Lygus spp.* two-spotted spider mite	5.12 to 6.4 fl. oz per acre (0.08 to 0.1 lb. ai per acre)	

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.5 lb. ai/A (32 fl. oz./A) per year.
- **DO NOT** make more than 5 applications per year.
- **DO NOT** make applications less than 7 days apart.
- **DO NOT** apply within 7 days of harvest.

MAYHAW (PHI – 30 Days)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
plum curculio	5.12 to 6.4 fl. oz. per acre (0.08 to 0.1 lb. ai per acre)	Apply in a minimum of 28 gallons per acre with ground equipment or a minimum of 2 gallons per acre of finished spray by air.

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.2 lb. ai/A (12.8 fl. oz./A) per year.
- **DO NOT** make more than 2 applications per year.
- **DO NOT** make applications less than 7 days apart.
- **DO NOT** apply within 30 days of harvest.

OKRA (PHI – 7 Days)

PEST	Rate	APPLICATION INSTRUCTIONS AND PRECAUTIONS
aphids armyworm 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. per acre (0.033 to 0.1 lb. ai per acre)	Apply in a minimum of 10 gallons per acre with ground equipment or a minimum of 2 gallons per acre of finished spray by air.
Broad mite carmine mite *Lygus spp.* two-spotted spider mite	5.12 to 6.4 fl. oz. per acre (0.08 to 0.1 lb. ai per acre)	

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.2 lb. ai/A (12.8 fl. oz./A) per year.
- **DO NOT** make more than 2 applications per year.
- **DO NOT** make applications less than 7 days apart.
- **DO NOT** apply within 7 days of harvest

PEANUT (PHI – 14 Days)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
beet armyworm corn earworm cutworm species fall armyworm grasshoppers green cloverworm leafhoppers lesser cornstalk borer loopers rednecked peanut worm southern armyworm southern corn rootworm stink bugs threecornered alfalfa hopper velvetbean caterpillar yellowstriped armyworm	2.1 to 6.4 fl. oz. per acre (0.033 to 0.1 lb. ai per acre)	Apply in a minimum of 50 gallons per acre (concentrate spray) or 200 gallons per acre (dilute spray) with ground equipment or a minimum of 2 gallons per acre of finished spray by air.

aphids spider mites thrips whitefly	5.12 to 6.4 fl. oz. per acre (0.08 to 0.1 lb. ai per acre)	

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.5 lb. ai/A (32 fl. oz./A) per year.
- **DO NOT** make more than 5 applications per year.
- **DO NOT** make applications less than 14 days apart.
- **DO NOT** apply within 14 days of harvest.
- **DO NOT** feed green immature plants and peanut hay to livestock.

PEARS (PHI – 14 Days)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
aphids coddling moth cutworms green fruitworm leafhoppers leafminers leafrollers *Lygus spp.* plant bugs plum curculio San Jose scale (crawlers) stink bugs tarnished plant bugs	2.6 to 12.8 fl. oz per acre (0.04 to 0.2 lb. ai per acre)	Apply in a minimum of 50 gallons per acre (concentrate spray) or 200 gallons per acre (dilute spray) with ground equipment or a minimum of 10 gallons per acre of finished spray by air. Repeat applications if necessary to maintain control, not exceeding 3 applications per year.
two-spotted spider mite yellow mite	3.8 to 12.8 fl. oz. per acre (0.06 to 0.2 lb. ai per acre)	
European red mite	5.12 to 12.8 fl. oz per acre (0.08 to 0.2 lb. ai per acre)	

RESTRICTIONS

- **DO NOT** apply more than 0.2 lb. ai/A (12.8 fl. oz./A) per application.
- **DO NOT** apply more than 0.5 lb. ai/A (32 fl. oz./A) per year with no more than 0.45 lb. ai/A (28.8 fl. oz./A) applied after petal fall.
- **DO NOT** make more than 3 applications per year.
- **DO NOT** make applications less than 30 days apart.
- **DO NOT** apply within 14 days of harvest.
- **DO NOT** graze livestock in treated orchards or cut treated cover crops for feed.

ROOT CROPS (Except Sugar Beets) (PHI – 21 Days)

edible burdock, carrot, celeriac, turnip rooted chervil, chicory, ginseng, horseradish, turnip rooted parsley, parsnip, radish, Oriental radish, rutabaga, salsify, black salsify, Spanish salsify, skirret, turnip.

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
aphids beet armyworm celery leaf tier corn earworm cross-striped cabbageworm cutworms diamondback moth European corn borer fall armyworm fire ants flea beetles green cloverworm hornworms imported cabbageworm loopers southern armyworm spider mites tobacco budworm velvetbean caterpillar whitefly yellowstriped armyworm	5.12 to 6.4 fl. oz. per acre (0.08 to 0.1 lb. ai per acre)	Apply in a minimum of 25 gallons per acre with ground equipment or a minimum of 2 gallons per acre of finished spray by air.

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.5 lb. ai/A (32 fl. oz./A) per year.
- **DO NOT** make more than 5 applications per year.
- **DO NOT** make applications less than 7 days apart.
- **DO NOT** apply within 21 days of harvest

SOYBEAN (PHI – 18 Days)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
Alfalfa caterpillar aphids aster leafhopper bean leaf Beetle beet armyworm* cloverworm corn earworm corn rootworm adult cucumber beetles cutworms European corn borer fall armyworm flea beetle grasshoppers	2.1 to 6.4 fl. oz. per acre (0.033 to 0.1 lb. ai per acre)	Apply in a minimum of 10 gallons per acre with ground equipment or a minimum of 2 gallons per acre of finished spray by air. * Pyrethroid resistance is common for Beet Armyworm and Tobacco Budworm. Please consult your local or state agricultural authority to determine if resistance pest populations are in your area. If so refer to the resistance management statement in the DIRECTIONS FOR USE section of this label

imported cabbageworm Japanese beetle adult leafhoppers leafminer loopers Mexican bean beetle adult pea leaf weevil pea weevil plant bug saltmarsh caterpillar sap beetle southern armyworm soybean aphid stink bugs tarnished plant bug thrips tobacco budworm* webworms western bean cutworm whitefly yellowstriped armyworm		
Lygus Spp. two- spotted spider mite whitefly	5.12 to 6.4 fl. oz. per acre (0.08 to 0.1 lb. ai per acre)	

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.3 lb. ai/A (19.2 fl. oz./A) per year.
- **DO NOT** make more than 3 applications per year.
- **DO NOT** make applications less than 30 days apart.
- **DO NOT** apply within 18 days of harvest.

SPINACH (PHI – 40 Days)

PESTS	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
armyworms Colorado potato beetle corn earworm cucumber beetles cutworms European corn borer flea beetles leafminers loopers pepper weevil tomato pinworm tomato hornworm thrips whitefly	2.1 to 6.4 fl. oz (0.033 to 0.1 lb. ai per acre	For control of whiteflies apply foliar treatments of this product by ground or air at rates of up to 0.4 pt. (0.1 lb. ai) per acre at minimum 7-day intervals up to a maximum of 4 applications. For control of fire ants apply this product to the soil (at planting) or as a foliar treatment by ground or air at rates of up to 0.4 pt. (0.1 lb. active) per acre at minimum 7-day intervals up to a maximum of 4 applications. Apply the specified dosage in 5-50 gallons of finished spray per acre by air or 10-50 gallons of finished spray per acre by ground.
broad mite Banks grass mite carmine mite	5.12 to 6.4 fl. oz (0.08 to 0.1lb. ai per acre	

fire ants *Lygus spp.* two-spotted spider mite Pacific spider mite		

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.4 lb. ai/A (25.6 fl. oz./A) per year.
- **DO NOT** make more than 4 applications per year.
- **DO NOT** make applications less than 7 days apart.
- **DO NOT** apply within 40 days of harvest.

STRAWBERRIES (PHI – 0 Days)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
Aphids Armyworms Flea beetles Hehothis spp. Leafrollers Lygus spp. Plant bugs Spittlebugs Stink bugs Strawberry clipper Strawberry sap beetle	2.56 to 12.8 fl. oz. per acre (0.04 to 0.2 lb. ai per acre)	Apply in a minimum of 5 gallons of finished spray per acre by air or in a minimum of 10 gallons of finished spray per acre with ground equipment. Thorough coverage is essential to achieve control. Apply when pest populations reach damaging thresholds and repeat as necessary at 7 – 14 day intervals.
Black vine weevil Strawberry root weevil	3.2 to 12.8 fl. oz. per acre (0.05 to 0.1 lb. ai per acre)	
Spider mites	6.4 to 12.8 fl. oz. per acre (0.1 to 0.2 lb. ai per acre)	

RESTRICTIONS

- **DO NOT** apply more than 0.2 lb. ai/A (12.8 fl. oz./A) per application.
- **DO NOT** apply more than 0.5 lb. ai/A (32 fl. oz./A) per year.
- **DO NOT** make more than 5 applications at reduced rates per year.
- **DO NOT** make applications less than 7 days apart.
- Aerial application is prohibited in Florida.
- California Specific Requirements for Strawberry Harvesters: Harvesters and other personnel performing tasks with all day foliage contact in treated fields within 5 days of application must wear a long sleeved shirt, long pants, and shoes plus socks. Following treatment of strawberry fields at rates of this product greater that 6.4 fl. oz. (0.1 lb. ai)/acre, harvesters must wear chemical-resistant gloves made of barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), or Viton (≥ 14 mils)for five (5) days after application.

SUCCULENT PEAS AND BEANS (PHI – 3 Days)

peas (*Pisum spp.*): dwarf pea, edible-pod, English pea, garden pea, green pea, snow pea, sugar snap, pigeon pea, beans (*Phaseolus spp*.) including: broadbean (succulent), lima bean (green), runner bean, snap bean, wax bean, bean (*Vigna spp.)* including: asparagus bean, blackeyed pea, Chinese longbean, cowpeas, moth bean, southern pea, yardlong bean, jackbean, soybean (immature seed), sword bean

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
aster leafhopper flea beetle grasshoppers leafhoppers	1.6 to 6.4 fl. oz per acre (0.025 to 0.1 lb. ai per acre)	Apply in a minimum of 10 gallons per acre with ground equipment or a minimum of 2 gallons per acre of finished spray by air. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray.
alfalfa caterpillar aphids bean leaf beetle beet armyworm cloverworm corn earworm corn rootworm (adult) cucumber beetles cutworms European corn borer fall armyworm Japanese beetle (adult) loopers pea leaf weevil pea weevil plant bug sap beetle southern armyworm stink bugs tarnished plant bug thrips webworms western bean cutworm yellowstriped armyworm whitefly	2.1 to 6.4 fl. oz per acre (0.033 to 0.1 lb. ai per acre	
Banks grass mite carmine mite *Lygus spp*. two-spotted spider mite	5.12 to 6.4 fl. oz per acre (0.08 to 0.1 lb. ai per acre	

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.2 lb. ai/A (12.8 fl. oz./A) per year.
- **DO NOT** make more than 2 applications per year.
- **DO NOT** make applications less than 3 days apart.
- **DO NOT** apply within 3 days of harvest.

TOBACCO

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
armyworm spp. *cutworm ssp.* mole crickets stalkborers tobacco flea beetle (larvae) white grubs wireworms	4 to 6.4 fl. oz. per acre (0.0625 to 0.1 lb. ai per acre)	Pre-transplant soil applications: Apply 0.0625- 0.1 lb. ai/A in a minimum of 10 gal/A to control soil pests. Use soil injection, rotary tillers, spray blades, plows, disc cultivators, spike-tooth harrows or spring-tooth harrows to incorporate product into top 4 inches of soil is required to control below ground pests. At-transplant water treatment application: Apply 0.0625- 0.1lb. ai/A in a water treatment application volume of 10-200 gal/A. Foliar applications: Apply 0.04- 0.10 lb. ai/A per foliar application up to, and including, layby in a minimum of 10 gal/A. May be tank mixed with clomazone, sulfentrazone and other herbicides approved for tobacco use.
aphid spp. *armyworm spp*. chinch bugs *cutworm spp.* flea beetle (adults) grasshoppers green bugs Japanese beetles stink bugs tarnished plant bugs thrips whiteflies	2.6 to 6.4 fl. oz. per acre (0 .04 to 0.1 lb. ai per acre)	
Lygus spp. spider mites	6.4 fl. oz. per acre (0.1 lb. ai per acre)	

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.2 lb. ai/A (12.8 fl. oz./A) per year.
- **DO NOT** apply later than lay-by.
- **DO NOT** make more than 2 foliar applications per year.

TOMATO and TOMATILLO (PHI – 1 Day)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
aphids armyworms including beet armyworm, fall armyworm, southern yellowstriped armyworm bean leaf beetle cabbageworm carmine mite cloverworm corn earworm corn rootworm(adult) cucumber beetles cutworms diamondback moth European corn borer flea beetles flea hopper grasshopper Japanese beetle (adult) leafhoppers loopers *Lygus Spp.* melonworm 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 two- spotted spider mite whitefly	2.1 to 5.2 fl. oz. per acre (0.033 to 0.08 lb. ai per acre)	Apply in water at the specified dosage for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment. For air applications, apply a minimum of 3 gallons of spray mixture per acre. Thorough coverage is essential to achieve control.
two- spotted spider mite	5.12 to 6.4 fl. oz. per acre (0.08 to 0.1 lb. ai per acre)	

RESTRICTIONS

- **DO NOT** apply more than 0.1 lb. ai/A (6.4 fl. oz./A) per application.
- **DO NOT** apply more than 0.4 lb. ai/A (25.6 fl. oz./A) per year.
- **DO NOT** make more than 4 applications per year.
- **DO NOT** make applications less than 10 days apart.
- **DO NOT** apply within 1 day of harvest.

TREE NUT CROPS (PHI – 21 Days Pecans) (PHI – 7 Days All Other Nut Crops)

Almonds, beech nut, Brazil nut, butternut, cashew, chestnut, chinquapin, filbert (hazelnut) hickory nut, macadamia nut (bush nut), pecan, pistachio and walnut (black and English)

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
black pecan aphid codling moth filbert worm hickory shuckworm leaffooted bugs navel orangeworm oblique banded leafroller peach twig borer pecan,leaf casebearer pecan nut casebearer pecan phylloxera plant bugs stink bugs walnut aphid yellow pecan aphid	3.2 to 12.8 fl. oz. per acre (0.05 to 0.20 lb. ai. per acre)	Apply in a minimum of 50 gallons per acre (concentrate spray) or 200 gallons per acre (dilute spray) with ground equipment or a minimum of 10 gallons per acre of finished spray by air.
European red mite spider mites	5.1 to 12.8 fl. oz. per acre (0.08 to 0.20 lb. ai. per acre)	
fire ants walnut husk fly	6.4 to 12.8 fl. oz. per acre (0.1 to 0.2 lb. ai. per acre)	

RESTRICTIONS

- **DO NOT** apply more than 0.2 lb. ai/A (12.8 fl. oz./A) per application.
- **DO NOT** apply more than 0.5 lb. ai/A (32 fl. oz./A) per year.
- **DO NOT** make more than 3 applications at reduced rates per year.
- **DO NOT** make applications less than 15 days apart.
- **DO NOT** apply within 21 days of harvest for pecans and 7 days for all other registered tree nut crops.
- **DO NOT** graze livestock in treated orchards or cut treated cover crops for feed.

TUBEROUS AND CORM VEGETABLES (PHI – 21 Days)

potato, sweet potato, arracacha, arrowroot, Chinese artichoke, Jerusalem artichoke, edible canna, cassava (bitter and sweet), chayote (root), chula, dasheen (taro), ginger, leren, tanier, turmer, yam bean, true yam

PEST	RATE	APPLICATION INSTRUCTIONS AND PRECAUTIONS
corn wireworm tobacco wireworm	19.2 fl. oz. per acre (0.3 lb. ai per acre) (at plant)	Apply this product as an in-furrow planting time treatment for the control of wireworms, rootworms and white grubs. Apply this product at the rate of 0.3 pounds active per acre as an in-furrow spray or T-band spray at planning time. Apply this product as a lay-by treatment for the control of wireworms, rootworms and white grubs. Apply this product to the drill area and cover with soil utilizing cultivation equipment set to throw soil to the drill area. Apply this product as a banded spray over the row at a rate of 0.05-0.15 lb. active
banded cucumber beetle black flea beetle cucumber beetle Japanese beetle grubs June beetles rootworms	3.2 fl. oz. per acre (0.05 lb. ai per acre) (lay-by)	

sweet potato flea beetle southern potato wireworm sugarcane beetle sweet potato weevil white-fringed beetle	2.1 to 6.4 fl. oz. per acre (0.033 to 0.1 ai per acre) (foliar)	per acre (3.2 to 9.6 ounces formulated) in 10 gallons per acre of spray. Apply this product as a foliar spray for the control of the adult life stages of flea beetles, click beetles (wireworms), cucumber beetles(rootworms), white fringed beetles and May/June beetles (white grubs). Apply this product at the rate of 0 .1 lbs. active per acre (6.4 ounces formulated) in 10 gallons of spray by ground and 3 gallons of spray by air.

RESTRICTIONS

- **DO NOT** apply more than 0.5 lb. ai/A (32 fl. oz./A) per year, including soil application.
- **DO NOT** make more than 2 foliar applications per year.
- **DO NOT** make applications less than 21 days apart.
- **DO NOT** apply within 21 days of harvest.

STORAGE AND DISPOSAL

DO NOT contaminate water, foodstuffs, feed or seed by storage or disposal.

Pesticide Storage

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. **DO NOT** put concentrate or dilute material into food or drink containers. **DO NOT** contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. **DO NOT** freeze or store below 40ºF. If crystals are observed, warm material to above 60ºF by placing container in warm location. Shake or roll container periodically to redissolve solids.

Spills

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 and used absorbent material in a holding container. Identify contents.

Pesticide Disposal

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

Container Disposal: [Use label language appropriate for container size and type.]
Nonrefillable containers. DO NOT reuse or refill this container. Clean container promptly after emptying.

Nonrefillable container equal to or less than 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. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. **DO NOT** cut or weld metal containers.
Nonrefillable container greater than 5 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. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use of disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. **DO NOT** cut or weld metal containers.
Refillable container. 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. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. **DO NOT** cut or weld metal containers.

Batch No._____

FOR CHEMICAL SPILL, LEAK, FIRE, EXPOSURE OR MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL CHEMTREC® TOLL FREE 1-800-424-9300 or 1-703-527-3887 (24 Hours per Day, 7 Days per Week). .

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