



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

October 3, 2025

Cathy Mazo
Regulatory Manager
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, NC 27419

Subject: Label Amendment - Registration Review Mitigation for Abamectin
Product Name: EPI-MEK 0.15 EC MITICIDE/INSECTICIDE
EPA Registration Number: 100-1154
Case Number: 479450
Application Dates: October 3, 2019

Dear Cathy Mazo:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Abamectin Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. You must submit one copy of the final printed labeling before you release the product for

shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Caleb Carr by phone at 202-566-0636, or via email at carr.caleb@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'M. Perch', with a long, sweeping horizontal line extending to the right.

Maryam K. Muhammad-Perch, Team Lead
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

ENCLOSURE: Stamped label

10/03/2025

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 100-1154

[Master]

RESTRICTED USE PESTICIDE

DUE TO TOXICITY TO NON-TARGET INVERTEBRATES, MAMMALS, AND
AQUATIC ORGANISMS

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR
PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES
COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

Epi-Mek® 0.15 EC Miticide/Insecticide

ABAMECTIN	GROUP	6	INSECTICIDE
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Active Ingredient:

Abamectin ¹	2.0%*
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Other Ingredients:	98.0%
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Total:	100.0%
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¹CAS No. 71751-41-2

*Epi-Mek® 0.15 EC is formulated as an emulsifiable concentrate and contains 0.15 lb
abamectin 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.)*

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-1154

EPA Est. XXXX

Product of xxxxx

Formulated in xxxxx

Net Contents

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Do not give any liquid to the person. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If in eyes	<ul style="list-style-type: none"> • 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 on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • 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.
<p style="text-align: center;">NOTE TO PHYSICIAN</p> <p>Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular tremors. Toxicity following accidental ingestion of this product can be minimized by early administration of chemical adsorbents (e.g., activated charcoal).</p> <p>If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements.</p> <p>In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.</p> <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<p style="text-align: center;">SYNGENTA HOTLINE NUMBER</p> <p style="text-align: center;">For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident), Call 1-800-888-8372</p>	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING/AVISO

May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if inhaled or absorbed through the skin. Avoid breathing spray mist or contact with skin. Prolonged or frequently repeated exposure may cause allergic skin 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

Some materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear:

- Coveralls worn over short-sleeved shirt and short pants
- Chemical-resistant gloves made of barrier laminate or butyl rubber ≥ 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading

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

User Safety Recommendations

Users should:

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

Environmental Hazards

This pesticide is toxic to fish and wildlife.

For terrestrial uses: 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 apply when weather conditions favor drift from target areas. Do not contaminate water when disposing of equipment wash water or rinsate.

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

Use of this product may pose a risk to threatened and endangered species of fish, amphibians, crustaceans (including fresh water shrimp), and insects. All use of this product in the state of California should comply with the recommendations of the California Endangered Species Project. Before using this product in California, consult with your county agriculture commissioner to determine use limitations that apply in your area.

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a medium potential for reaching both surface water and aquatic sediment via runoff for several weeks to months after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of abamectin from runoff water and sediment.

RUNOFF PREVENTION

To protect the environment, do not allow pesticide to enter or 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.

Physical or Chemical Hazards

Do not use or store near heat or open flame.

Attention: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA 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. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. Exception: For grape girdling, cane turning, and tying in grapes, do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 days.

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 over short-sleeved shirt and short pants
- Chemical-resistant gloves made of barrier laminate or butyl rubber ≥ 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR PEST CONTROL, AND/OR ILLEGAL RESIDUES.

PRODUCT INFORMATION

Epi-Mek 0.15 EC is an emulsifiable concentrate that will control certain pests on the crops listed on this label when the product is applied according to the **Directions for Use**. Thorough coverage of foliage is essential for good mite and insect control.

NOTE:

Phytotoxicity: Epi-Mek 0.15 EC has been tested for phytotoxicity and has a wide margin of safety on a variety of crops. Epi-Mek 0.15 EC has also been shown to be compatible with many commonly used pesticides, crop oils, horticultural oils, and nutritional sprays. However, since it is not possible to test a large number of possible mixtures, the user should pre-test any proposed mixtures with Epi-Mek 0.15 EC to ensure the physical compatibility and lack of phytotoxic effects.

New York State Restriction: Do not apply Epi-Mek 0.15 EC with aircraft in New York state.

Chemigation

Do not apply this product through any type of irrigation system.

SPRAY DRIFT MANAGEMENT

Spray Drift

Aerial Applications:

- Do not release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to use a medium or coarser droplet size (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 not exceed 65% of the wingspan for fixed wing aircraft or 75% of the rotor diameter for helicopters. Otherwise, the boom length must not exceed 75% of the wingspan for fixed wing aircraft or 90% of the rotor diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Do not apply during temperature inversions.

Air Blast 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 the row end and when spraying outer row.
- Do not apply during temperature inversions.

Ground Boom Applications:

- User must only apply with the release height recommended by the manufacturer, but no more than 4 ft above the ground or crop canopy.
- Applicators are required to use a medium or coarser droplet size (ASABE S572).
- Do not apply when wind speeds exceeds 15 mph at the application site.
- Do not apply during temperature inversions.

NOTE: When states have more stringent regulations, they must be observed.

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.

Spray Drift Precautions for Application with Aircraft or Ground Application Equipment

- Do not apply with ground application equipment within 25 ft. of or with aircraft within 150 ft. of lakes, reservoirs, rivers, permanent streams, marshes, pot holes, natural ponds, estuaries, or commercial fish farm ponds.
- Do not cultivate within 25 ft. of the aquatic area to allow growth of a vegetative filter strip.
- Do not allow this product to drift onto non-target areas. Drift may result in illegal residues or injury to nontarget species. Risk of exposure to sensitive areas can be reduced by applying this product when the wind direction is away from the sensitive area.
- Do not apply when wind speed is below 2 mph because wind direction will vary and there is a high potential for inversion.
- Observe the following precautions when using ground application to spray tree crops or hops in the vicinity of aquatic areas such as lakes, reservoirs,

permanent streams, marshes, potholes, natural ponds, estuaries, or commercial fish ponds:

- Do not apply Epi-Mek 0.15 EC when weather conditions favor drift to aquatic areas
- Do not apply within 110 ft. upwind of aquatic areas or when wind speed is above 8 mph.
- Spray last 3 rows windward of aquatic areas using nozzles on one side only, with spray directed away from the aquatic areas.
- Avoid spray going over tops of trees by adjusting or turning off top nozzles.

Resistance Management

ABAMECTIN	GROUP 6	INSECTICIDE
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Some insect or mite pests are known to develop resistance to products after repeated use. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area. Syngenta encourages responsible product stewardship to ensure effective long-term control of the insects or mites on this label.

Epi-Mek 0.15 EC contains a Group 6 miticide/insecticide (abamectin). Insect or mite biotypes with acquired or inherent resistance to Group 6 miticides/insecticides may eventually dominate the pest population if Group 6 miticides/insecticides are used repeatedly as the predominant method of control for targeted species. This may result in partial or total loss of control of those species by Epi-Mek 0.15EC or other Group 6 miticides/insecticides.

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 or mite 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.

To delay insecticide resistance, take the following steps:

- Rotate the use of Epi-Mek 0.15 EC or other Group 6 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 pest(s).
- Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
- The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact your local Syngenta representative.

In order to maintain susceptibility to this class of chemistry:

- Avoid using Group 6 miticides/insecticides exclusively for season long control of insect or mite species with more than one generation per crop season.
- For insect or mite species with successive or overlapping generations, apply Epi-Mek 0.15 EC or other Group 6 miticides/insecticides using a “treatment window” approach. A treatment window is a period of time as defined by the stage of crop development and/or the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, there may either be single or consecutive applications (seed treatment, soil, foliar, unless otherwise stated) of the Group 6 miticides/insecticides. Do not exceed the maximum Epi-Mek 0.15 EC allowed per year.
- Following a treatment window of Group 6 miticides/insecticides, rotate to a treatment window of effective products with a different mode of action before making additional applications of Group 6 miticides/insecticides.

- A treatment window rotation, along with other IPM practices for the crop and use area, is considered an effective strategy for preventing or delaying a pest's ability to develop resistance to these classes of chemistry.
- If resistance is suspected, do not reapply Epi-Mek 0.15 EC or other Group 6 miticides/insecticides.

Other Insect or Mite Resistance Management (IRM) Practices

- Incorporate IPM techniques into your insect or mite control program.
- Monitor treated insect or mite populations for loss of field efficacy.
- Use tank-mixtures or premixes with miticides/insecticides from a different target site of action group as long as the involved products are all registered for the same crop outlet and effective rates are applied.

For additional information on Insect or Mite Resistance Management:

- Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations.
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org/>.

CROP USE DIRECTIONS

AVOCADOS

For control of Avocado thrips

NOTE: Epi-Mek 0.15 EC may be applied using ground application equipment or aircraft. Aerial application is permitted because of its importance to the avocado growing industry. However, aerial application is not the preferred method of application for the best control of thrips. With aerial application, spray coverage and the resulting control of thrips is less than with ground application. For this reason, the user accepts all liability for the level and duration of control of thrips when Epi-Mek 0.15 EC is aurally applied.

Gallons of spray will vary with size and number of trees per acre and density of foliage. In any case, thorough coverage is essential for good mite and insect control.

Avocados

Pest	fl oz/A	Instructions
Avocado Thrips (<i>Scirtothrips perseae</i>)	10.0 – 20.0 Do not use less than 10 fl oz of product/A.	<ul style="list-style-type: none"> For best results, apply when immature thrips are first observed but before numbers exceed 5 immature thrips per leaf/fruit. Use 10-15 fl oz of product /A for low* to moderate* infestations and 15-20 fl oz of product/A for severe* infestations. Add a 1.0% - 4.0% of a horticultural spray oil (not a dormant oil) approved for use on avocados.
Horticultural Oil (not a dormant oil)	Minimum 1 to 4% v/v	<ul style="list-style-type: none"> Make a second application, if needed, to maintain control, but wait at least 30 days after the first application to retreat. (See Use Restrictions.) For Ground Application: If spray volume is greater than 400 gal/A apply Epi-Mek 0.15 EC at a rate of 2.5 fl oz per 100 gallons of water plus 1.0% - 4.0% of a horticultural spray oil (not a dormant oil) approved for use on avocados. Note: To prevent crop injury, observe all precautions and restrictions on the oil label. When using oil concentrations above 2.0% treat a small test area before making a large-scale application.

*Thrips Infestation Level	Number of immature thrips per leaf/fruit
Low	1-2
Moderate	3-4
Severe	More than 5

Use Restrictions - Avocados

- **PHI:** Do not apply within **14 days** of harvest.
- **Application Method:** Ground and aerial application permitted.
- **Amount of Water:** Do not apply in less than 100 gallons of water with ground application equipment or 50 gallons of water with aircraft.
- **Maximum Amount per Application:** Do not apply more than 20 fl oz/A (or 0.023 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin containing product per application.
- **Application Interval:** Wait at least 30 days before repeating application.
- **Number of Applications:** Do not make more than 2 applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin containing product per year.
- **Maximum Amount per Year:** Do not apply more than 40 fl oz/A (or 0.047 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Grazing:** Do not allow livestock to graze in treated orchards.

BEAN, DRY AND SUCCULENT

Crops: *Cicer arietinum* (chickpea, garbanzo bean); *Lupinus* spp. (including sweet lupine, white sweet lupine, white lupine, and grain lupine); *Phaseolus* spp. (including kidney bean, lima bean, mung bean, navy bean, pinto bean, snap bean, and waxbean); *Vicia faba* (broad bean, fava bean); *Vigna* spp. (including asparagus bean, blackeyed pea and cowpea*)

*For use on cowpeas that are grown only for dry seed. Do not allow livestock to graze cowpea forage and do not harvest cowpea forage or hay for use as livestock feed.

For control of *Liriomyza* leafminers and Spider Mites

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for optimum results. Inadequate coverage can result in reduced control.

Note:

- Apply Epi-Mek 0.15 EC with ground application equipment or aircraft.
- For best control, apply Epi-Mek 0.15 EC with ground application equipment. With aerial application, the resulting control of leafminers and spider mites could be less than with ground application.

Bean

Pest	Fl oz/A	Instructions
<i>Liriomyza</i> leafminers Spider mites	8.0 - 16.0	<ul style="list-style-type: none">• Use 8 - 12 fl oz/A for low to moderate infestations and 13 - 16 fl oz/A for high infestations.• Leafminers and Spider Mites: Apply when adult leafminer flies or spider mites are first observed and repeat application, as needed, to maintain control within constraints of a sound resistance management program. (See Use Restrictions.)

Use Restrictions – Bean

- **PHI:** Do not apply within **7 days** of harvest.
- **Application Method:** Ground or aerial application is permitted; however, do not apply with aircraft in New York state.
- **Amount of Water:** Do not apply in less than 10 gallons of water/A with ground application equipment. Do not apply in less than 5 gallons of water/A with aircraft. Under conditions such as high pest populations, dense foliage, or adverse application conditions (such as high temperatures), use a greater volume of water to ensure adequate coverage.

- **Maximum Amount per Application:** Do not apply more than 16 fl oz/A (or 0.019 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Application Interval:** Wait at least 6 days before repeating application.
- **Number of Applications:** Do not make more than 2 sequential applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product.
- **Maximum Amount per Year:** Do not apply more than 48 fl oz/A (or 0.056 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.

CELERIAC (*Apium graveollens*)

For control of Twospotted spider mite

Epi-Mek 0.15 EC may be applied using conventional dilute or concentrate sprayers. Thorough coverage of the crop canopy is essential for optimum results. Inadequate crop coverage may result in reduced control. Calibrate sprayer to deliver sufficient water for thorough coverage of the foliage.

Celeriac

Pest	fl oz/A	Instructions
Twospotted spider mite	16.0	<ul style="list-style-type: none">• For best results, use in combination with a non-ionic surfactant.• Apply when mites first appear and repeat as necessary to maintain control. (See Use Restrictions.)

Use Restrictions – Celeriac

- **PHI:** Do not apply within **7 days** of harvest.
- **Application Method:** Apply with ground application equipment only.
- **Amount of Water:** Do not apply in less than 20 gallons of water/A.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** Do not make more than 2 sequential applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin containing product.
- **Maximum Amount per Year:** After transplanting the celeriac, do not apply more than 48 fl oz/A (or 0.056 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin containing product per year.

CITRUS FRUIT CROP GROUP 10-10

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

For control of Asian citrus psyllid, Broad mite, Citrus bud mite, Citrus leafminer, Citrus rust mite, Citrus thrips, and Twospotted spider mite

Thorough spray coverage is essential for good mite and insect control. Spray gallonage may vary depending on size and number of trees per acre as well as density of foliage.

- **Ground Application**

Apply using conventional dilute or concentrate ground application sprayers calibrated to deliver sufficient water for thorough coverage (or outside coverage for Asian citrus psyllid, citrus leafminer, or citrus thrips).

- **Aerial Application**

Aerial application is permitted **only** for control of citrus leafminer. Aerial application to citrus is not approved in California.

Citrus Fruit Crop Group 10-10

Pest	For Dilute Sprays ^a fl oz/100 gal	For Concentrate Sprays ^b fl oz/A	Instructions
Asian citrus psyllid	--	10-20 ^c	<ul style="list-style-type: none"> Apply Epi-Mek 0.15 EC with a minimum of 0.20% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gallon of oil/A (except when specified differently below). Asian Citrus Psyllid: Apply Epi-Mek 0.15 EC to protect newly expanding foliage flush during the spring, summer or fall. Epi-Mek 0.15 EC will only control adults and nymphs present at the time of application. Mites: Apply when mites first appear during spring, summer, and/or fall. Citrus Bud Mite: For best results, time the spray at “bud swell.” Citrus Leafminer: Apply to protect new growth during spring, summer, or fall. Citrus Thrips: Application targeted for citrus thrips will only control the current generation and must be correctly timed. Apply when economic thresholds have been reached (after egg hatch has begun – preferably early to mid-hatch).
Broad mite	1.0-2.0	10-20 ^c	
Citrus bud mite	1.0-2.0	10-20 ^d	
Citrus leafminer	--	5-20 ^c	
Citrus rust mite	0.5-2.0	5-20 ^c	
Citrus thrips	--	10-20 ^e	
Twospotted spider mite	1.0-2.0	10-20	

^aThe rate of Epi-Mek 0.15 EC per 100 gallons is based on a volume of 1,000 gal/A dilute spray.

^bFor concentrate sprays, adjust the dosage to apply an amount/A equal to that used in full cover dilute spray.

^cGround application: For best results, use 150-300 gal/A of spray mix with a minimum of 3 gal/A of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 MPH.

^dFor best results, use a minimum of 500 gal/A of spray mix with a minimum of 0.5% horticultural spray oil (not a dormant oil).

^eFor best results, use 100-250 gal/A of spray mix applied to achieve outside coverage.

Use Restrictions – Citrus Fruit Crop Group 10-10

- **PHI:** Do not apply within **7 days** of harvest.
- **Application Method:**
 - To control citrus leafminer** - Ground or aerial application is permitted; however, do not apply with aircraft to citrus in California. For aerial application use a minimum of 10 gallons of finished spray volume per acre. Under conditions such as high pest populations, dense foliage, or adverse application conditions (such as high temperatures) use a greater volume of water to ensure adequate coverage.
 - All other pests** - Ground application only. Do not apply with aircraft.
- **Prohibited Use:** To manage resistance, do not use in citrus nurseries.
- **Application Interval:** Wait at least 30 days before repeating application.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Maximum Amount per Year:**
 - Do not** apply more than 40 fl oz/A (or 0.047lb ai/A) of Epi-Mek 0.15 EC, or any other foliarly applied abamectin-containing product per year.
 - Do not** make more than 3 applications per year.
- **Grazing:** Do not allow livestock to graze in treated orchards.

COTTON

For control of spider mites

Mix with water as indicated below. Thorough coverage of the crop is essential for optimum results. Inadequate coverage may result in reduced control. For best coverage and control apply Epi-Mek 0.15 EC with ground application equipment.

Cotton

Pest	Fl oz/A	Instructions
Carmine spider mite Pacific spider mite Strawberry spider mite Twospotted spider mite	4-6 (For early season cotton-See Instructions) 8-16	<p>Apply when mites first appear. The use rate depends on the size of the plant and density of the foliage. Repeat application if needed to maintain control. See Use Restrictions.</p> <p>The lower use rates of 4-6 fl oz/A are only recommended if cotton is early season and under 10 inches in height. Do not use less than 4 fl oz/A.</p> <p>West of the Rocky Mountains - the lower use rates may only be used on cotton less than 10 inches in height and applied only with ground equipment.</p> <p>Note: Epi-Mek 0.15 EC may be used without a wetting agent. Spreading and penetrating surfactants can improve mite control. When necessary to improve the wetting of foliage and to smooth out spray deposits, a nonionic surfactant is recommended. Do not use binder or sticker-type surfactants.</p>

Use Restrictions - Cotton

- **PHI:** Do not apply within **20 days** of harvest.
- **Application Method:** Ground or aerial application is permitted.
- **Minimum Amount of Water:** Do not apply in fewer than 5 gallons of water per acre. Use sufficient volume to ensure thorough coverage.
- **Maximum Amount per Application:** Do not apply more than 16 fl oz/A (or 0.019 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Application interval:** Wait at least 21 days before repeating application.
- **Maximum Amount per Year:** Do not apply more than 32 fl oz/A (or 0.038 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Grazing Restriction:** Do not feed or allow livestock to graze treated cotton.

CUCURBIT VEGETABLES CROP GROUP 9

Crops in this group are: Chayote, Chinese waxgourd, Citron Melon, Cucumber, Gherkin, Edible Gourd, (includes hyotan, cucuzza, hechima, Chinese okra); *Momordica* spp., (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); Muskmelon (hybrids and/or cultivars of *Cucumis melo*) includes true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin, Summer Squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Winter Squash (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash), Watermelon (includes hybrids and/or varieties of *Citrullus lanatus*).

For Control of Leafminers and Spider Mites

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for optimum results. Inadequate coverage may result in reduced control.

Note:

- Epi-Mek 0.15 EC may be applied with ground application equipment or aircraft.
- For best control of mites, apply Epi-Mek 0.15 EC with ground application equipment. With aerial application, spray coverage and the resulting control of mites is less than with ground application. For this reason, the user accepts all liability for the level and duration of control of mites when Epi-Mek 0.15 EC is aerially applied.

Cucurbit Vegetables Crop Group 9

Pest	fl oz/A	Instructions
Leafminers Spider mites	8.0-16.0	<ul style="list-style-type: none"> • Use 8 -12 fl oz/A for low to moderate infestations and 16 fl oz/A for severe infestations. • Apply when adult leafminer flies or spider mites are first observed and repeat application, as needed, to maintain control within constraints of a sound resistance management program. (See Use Restrictions.)

Use Restrictions – Cucurbit Vegetables Crop Group 9

- **PHI:** Do not apply within **7 days** of harvest.
- **Application Method:** Ground or aerial application is permitted; however, do not apply with aircraft in New York state.
- **Amount of Water:** Do not apply in less than 20 gallons of water/A with ground application equipment. Do not apply in less than 5 gallons of water/A with aircraft. Under conditions such as high pest populations, dense foliage, or adverse

application conditions (such as high temperatures) use a greater volume of water to ensure adequate coverage.

- **Maximum Amount per Application:** Do not apply more than 16 fl oz/A (or 0.019 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** Do not make more than 2 sequential applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product.
- **Maximum Amount per Year:** Do not apply more than 48 fl oz/A (or 0.056 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.

FRUITING VEGETABLES (except *Cucurbits*) CROP GROUP 8-10

Crops in this group are: African eggplant; bush tomato; bell pepper; cocona; currant tomato; eggplant; garden huckleberry; goji berry; groundcherry; martynia; naranjilla; okra; pea eggplant; pepino; nonbell pepper; roselle; scarlet eggplant; sunberry; tomatillo; tomato; tree tomato; cultivars, varieties, and/or hybrids of these.

For control of Broad mite, Colorado potato beetle, *Liriomyza* leafminers, Spider mites, *Thrips palmi*, Tomato pinworm, Tomato psyllid, and Tomato russet mite

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for optimum results. Inadequate coverage may result in reduced control.

Note:

- Epi-Mek 0.15 EC may be applied with ground application equipment or aircraft.
- For best control of mites, apply Epi-Mek 0.15 EC with ground application equipment. With aerial application, spray coverage and the resulting control of mites is less than with ground application. For this reason, the user accepts all liability for the level and duration of control of mites when Epi-Mek 0.15 EC is aerially applied.

Fruiting Vegetables Crop Group 8-10

Pest	fl oz/A	Instructions
Broad mite Colorado potato beetle <i>Liriomyza</i> leafminers Spider mites <i>Thrips palmi</i> Tomato psyllid Tomato russet mite	8.0-16.0	<ul style="list-style-type: none"> • Broad, russet, and spider mites: Apply when mites first appear. • <i>Thrips palmi</i>: Apply when thrips are first observed. • Tomato pinworm: Application may be made from the time moth activity is detected up to, but no later than, the time when newly emerged larvae are present. • Mites, leafminers, <i>Thrips palmi</i>, and Colorado potato beetle: Use 8 fl oz/A for low to moderate infestations and 16 fl oz/A for severe infestations.
Tomato pinworm	16.0	<ul style="list-style-type: none"> • Repeat application as necessary to maintain control. (See Use Restrictions.) • Note: Epi-Mek 0.15 EC may be used without a wetting agent. Spreading and penetrating surfactants can improve insect control when necessary to improve the wetting of foliage and to smooth out spray deposits, a nonionic surfactant is recommended. Do not use binder or sticker-type surfactants.

Use Restrictions – Fruiting Vegetables Crop Group 8-10

- **PHI:** Do not apply within **7 days** of harvest.
- **Application Method:** Ground or aerial application permitted; however do not apply with aircraft in New York state.
- **Prohibited Use:** For resistance management, do not use on fruiting vegetables grown for transplanting.
- **Amount of Water:** Do not apply in less than 20 gallons of water/A with ground application equipment. Do not apply in less than 5 gallons of water/A with aircraft. Under conditions such as high pest populations, dense foliage, or adverse application conditions (such as high temperatures), use a greater volume of water to ensure adequate coverage.
- **Maximum Amount per Application:** Do not apply more than 16 fl oz/A (or 0.019 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** Do not make more than 2 sequential applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product.
- **Maximum Amount per Year:** Do not apply more than 48 fl oz/A (or 0.056 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.

GRAPES AND SMALL FRUIT VINE CLIMBING SUBGROUP (EXCEPT FUZZY KIWIFRUIT) CROP SUBGROUP 13-07F

Crops in this group are: Amur river grape; gooseberry; grape; kiwifruit, hardy; maypop; schisandra berry; cultivars, varieties, and/or hybrids of these.

For control of Pacific spider mite, Twospotted spider mite, Variegated leafhopper, Western grape leafhopper, Western grapeleaf skeletonizer, and Willamette spider mite

Epi-Mek 0.15 EC may be applied using conventional ground sprayers calibrated to deliver sufficient water for thorough coverage. Thorough coverage is essential for good spider mite and insect control. Do not spray alternate rows. Epi-Mek 0.15 EC must be applied to both sides of each row for maximum coverage.

Grapes, Crop Subgroup 13-07F

Pest	fl oz/A	Instructions
Pacific spider mite Twospotted spider mite Variegated leafhopper Western grape leafhopper Western grapeleaf skeletonizer Willamette spider mite	8.0-16.0 Plus a nonionic surfactant	<ul style="list-style-type: none"> • Use 8 - 12 fl oz/A for low to moderate infestations and 16 fl oz for severe infestations. • Repeat application, if needed. (See Use Restrictions.) • Note: Epi-Mek 0.15 EC must be applied in combination with a nonionic surfactant to improve wetting of foliage and to smooth out spray deposits. Spreading and penetrating surfactants can improve insect control. Do not use binder or sticker-type surfactants. Although Epi-Mek 0.15 EC has been tested in combination with a nonionic surfactant for safety to grapes, it is impossible to test on all grape varieties under the variety of conditions that may cause crop injury. Therefore, when using Epi-Mek 0.15 EC in combination with a nonionic surfactant, carefully follow the Directions for Use and Precautions on the nonionic surfactant label and in official spray guides. • Spider mites: Apply when mites first appear but before motiles exceed 5 per leaf. • Western grapeleaf skeletonizer: Apply Epi-Mek 0.15 EC plus a nonionic surfactant when larvae are first observed.

		<p>For optimum control, apply shortly after egg hatch.</p> <ul style="list-style-type: none">• Leafhoppers: Apply Epi-Mek 0.15 EC plus a nonionic surfactant using thorough spray coverage for contact knock-down only.
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Use Restrictions – Grapes, Crop Subgroup 13-07F

- **PHI:** Do not apply within **28 days** of harvest.
- **Application Method:** Ground application only.
- **Amount of Water:** Do not apply in less than 50 gallons of water/A with conventional ground application equipment. When using an electro-static sprayer, less than 50 gallons of water/A may be used; however, do not use less than 5 gallons of water/A.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Maximum Amount per Application:** Do not apply more than 16 fl oz/A (or 0.019 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Application Interval:** If a second application is necessary, wait at least 21 days before repeating application.
- **Number of Applications:** Do not make more than 2 applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Maximum Amount per Year:** Do not apply more than 32 fl oz/A (0.038 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Grazing:** Do not allow livestock to graze in treated vineyards.

GUAVA

Crops in this group are: guava, feijoa, jaboticaba, wax jambu, starfruit, passionfruit, and acerola.

For control of Twospotted spider mite

Thorough spray coverage is essential for good mite and insect control. Spray gallonage may vary depending on size and number of trees per acre as well as density of foliage.

Ground Application: Apply using conventional dilute or concentrate ground application sprayers calibrated to deliver sufficient water for thorough coverage.

Guava

Pest	For Dilute Sprays ^a fl oz/100 gal	For Concentrate Sprays ^b fl oz/A	Instructions
Twospotted spider mite	1.0 – 2.0	10.0 – 20.0 ^c	<ul style="list-style-type: none"> • Apply Epi-Mek 0.15 EC with a minimum of 0.20% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gallon of oil/A (except when specified differently below). • Use 10-15 fl oz of product/A for low to moderate infestations and 15-20 fl oz of product/A for severe infestations. • Mites: Apply when mites first appear during spring, summer, and/or fall.

^aThe rate of Epi-Mek 0.15 EC per 100 gallons is based on a volume of 1,000 gal/A dilute spray.

^bFor concentrate sprays, adjust the dosage to apply an amount/A equal to that used in full cover dilute spray.

^cGround application: For best results, use 150-300 gal/A of spray mix with a minimum of 3 gal/A of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 MPH.

Use Restrictions – Guava

- **PHI:** Do not apply within **7 days** of harvest.
- **Application Method:** Ground application only.
- **Amount of Water:** Do not apply in less than 50 gallons of water/A with conventional ground application equipment. When using an electro-static sprayer, less than 50 gallons of water/A may be used; however, do not use less than 5 gallons of water/A.
- **Maximum Amount per Application:** Do not apply more than 20 fl oz/A (or 0.023 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Application Interval:** If a second application is necessary, wait at least 14 days before repeating application.
- **Number of Applications:** Do not make more than 3 applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Maximum Amount per Year:** Do not apply more than 60 fl oz/A (0.07 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.

HERB CROP SUBGROUP 19A

Crops in this subgroup are: Angelica, Balm, Basil, Borage, Burnet, Camomile, Catnip, Chervil (dried), Chives, Chives (Chinese), Clary, Coriander (leaf), Cilantro (leaf), Costmary, Culantro (leaf), Curry (leaf), Dill weed, Horehound, Hyssop, Lavender, Lemongrass, Lovage (leaf), Marigold, Marjoram (*Origanum* species), Nasturtium, Parsley (dried), Pennyroyal, Rosemary, Rue, Sage, Summer and Winter savory, Sweet bay, Tansy, Tarragon, Thyme, Wintergreen, Woodruff, and Wormwood.

For control of *Liriomyza* leafminers and Spider Mites

Mix with water as indicated below. Apply thoroughly with ground application equipment as a foliar spray and ensure good upper and lower leaf coverage.

Herb Crop Subgroup 19A

Pest	fl oz/A	Instructions
<i>Liriomyza</i> leafminers Spider Mites	8.0-16.0	<ul style="list-style-type: none"> Use 8 fl oz/A for low to moderate infestations and 16 fl oz/A for severe infestations. Apply when adult leafminer flies or spider mites are first observed and repeat application, as necessary to maintain control. (See Use Restrictions.) Epi-Mek 0.15 EC may be used without a wetting agent. When necessary to improve the wetting of foliage and to smooth out spray deposits, a nonionic surfactant is recommended for all crops in the Herb Crop Subgroup except chives. Do not use a surfactant when applying this product to chives. Note: Although Epi-Mek 0.15 EC has been tested in combination with a nonionic surfactant for safety to herbs, it is impossible to test on all herb types and varieties under the variety of conditions that may cause crop injury. Therefore, when using Epi-Mek 0.15 EC in combination with a nonionic surfactant, carefully follow the Directions for Use and Precautions on the nonionic surfactant label and in official spray guides.

Use Restrictions – Herb Crop Subgroup 19A

- PHI:** Do not apply within **14 days** of harvest. For chives, do not apply within **7** days of harvest.
- Application Method:** Apply with ground application equipment.
- Amount of Water:** Use a minimum of 20 gallons of water/A.
- Application is not permitted from onset of flowering until after petal fall is complete.

- **Maximum Amount per Application:** Do not apply more than 16 fl oz/A (or 0.019 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** Do not make more than 2 applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per single cutting (harvest).
- **Maximum Amount per Year:** Do not apply more than 48 fl oz/A (or 0.056 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.

HOPS (Not approved for use in California)

For control of Twospotted spider mite

Mix with water as indicated below. Apply with ground application equipment as a foliar spray and ensure good upper and lower leaf coverage. Gallons of spray may vary with the size of plants and density of foliage. In any case, thorough coverage is essential for good control of twospotted spider mite. When using concentrate sprays, the amount of water is reduced, but the amount of Epi-Mek 0.15 EC/A should remain the same as for dilute sprays.

Hops

Pest	fl oz/A	Instructions
Twospotted spider mite	8-16.0	<ul style="list-style-type: none"> • Apply Epi-Mek 0.15 EC when twospotted spider mites reach treatment thresholds. • For applications at ½ trellis growth (6-8 ft. height), apply 8-16 fl oz/A in a minimum of 40 gallons of water/A. • For applications beyond ½ trellis growth, do not use less than 16 fl oz/A in a minimum of 100 gallons of water/A. • Note: Epi-Mek 0.15 EC may be used without a wetting agent. When necessary to improve the wetting of foliage and to smooth out spray deposits, a nonionic surfactant is recommended.

Use Restrictions – Hops

- **PHI:** Do not apply within **28 days** of harvest.
- **Application Method:** Ground application only. Do not apply with aircraft.
- **Application Interval:** If a second application is necessary to maintain control, wait at least 21 days before repeating application and repeat application only after an alternative miticide with a different mode of action has been used.

- **Maximum Amount per Application:** Do not apply more than 16 fl oz/A (or 0.019 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Maximum Number of Applications:** Do not make more than 2 applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Maximum Amount per Year:** Do not apply more than 32 fl oz/A (or 0.038 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Grazing:** Do not allow livestock to graze in treated hops yards.

LEAFY VEGETABLES (except *Brassica* vegetables) CROP GROUP 4

Crops in this group are: Amaranth (leafy Amaranth, Chinese spinach, tampala); Arugula (Roquette); Cardoon; Celery; Celtuce; Chervil; Chinese celery; Chrysanthemum, edible leaved and garland; Corn salad; Cress, garden and upland (yellow rocket and winter cress); Dandelion; Dock (Sorrel); Endive (escarole); Florence fennel; Lettuce, head and leaf; New Zealand Spinach; Orach; Parsley; Purslane, garden and winter; Radicchio (red chicory); Rhubarb; Spinach; Vine spinach; and Swiss chard.

For Control of Carmine spider mite, *Liriomyza* leafminers, and Twospotted spider mite

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for optimum results. Inadequate coverage may result in reduced control.

Note: Epi-Mek 0.15 EC may be applied with ground application equipment or aircraft. For best control of mites, apply Epi-Mek 0.15 EC with ground application equipment. With aerial application, spray coverage and the resulting control of mites is less than with ground application. For this reason, the user accepts all liability for the level and duration of control of mites when Epi-Mek 0.15 EC is aerially applied.

Leafy Vegetables Crop Group 4

Pest	fl oz/A	Instructions
Carmine spider mite <i>Liriomyza</i> leafminers Twospotted spider mite	8.0-16.0 Plus a nonionic surfactant	<ul style="list-style-type: none"> • Use 8 - 12 fl oz/A for low to moderate infestations and 16 fl oz/A for severe infestations. • Spider mites: Apply when mites first appear, and repeat as needed to maintain control. (See Use Restrictions.) • Leafminers: Apply when adult flies are first observed and repeat applications as needed to maintain control. (See Use Restrictions.) • Note: Epi-Mek 0.15 EC may be used without a wetting agent. Spreading and penetrating

		surfactants can improve insect control. When necessary to improve the wetting of foliage and to smooth out spray deposits, a nonionic surfactant is recommended. Do not use binder or sticker-type surfactants.
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Use Restrictions – Leafy Vegetables Crop Group 4

- **PHI:** Do not apply within **7 days** of harvest.
- **Application Method:** Ground or aerial application is permitted; however, do not apply with aircraft in New York state.
- **Prohibited Use:** For resistance management, do not use on leafy vegetables grown for transplanting.
- **Amount of Water:** Do not apply in less than 20 gallons of water/A with ground application equipment. Do not apply in less than 5 gallons of water per acre with aircraft. Under conditions such as high pest populations, dense foliage, or adverse application conditions (such as high temperatures), use a greater volume of water to ensure adequate coverage.
- **Maximum Amount per Application:** Do not apply more than 16 fl oz/A (or 0.019 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of applications:** Do not make more than 2 sequential applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product.
- **Maximum Amount per Year:** Do not apply more than 48 fl oz/A (or 0.056 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.

LYCHEE

Crops in this group are: lychee, longan, Spanish lime, rambutan, and pulasan.

For control of Twospotted spider mites, *Liriomyza* leafminers, and Thrips

Thorough spray coverage is essential for good mite and insect control. Spray gallonage may vary depending on size and number of trees per acre as well as density of foliage.

Ground Application: Apply using conventional dilute or concentrate ground application sprayers calibrated to deliver sufficient water for thorough coverage.

Lychee

Pest	For Dilute Sprays ^a fl oz/100 gal	For Concentrate Sprays ^b fl oz/A	Instructions
Twospotted spider mite <i>Liriomyza</i> leafminers Thrips	1.0 - 2.0	10.0 - 20.0 ^c	<ul style="list-style-type: none"> • Apply Epi-Mek 0.15 EC with a minimum of 0.20% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gallon of oil/A (except when specified differently below). • Use 10-15 fl oz of product /A for low to moderate infestations and 15-20 fl oz of product/A for severe infestations. • Mites: Apply when mites first appear during spring, summer, and/or fall. • Leafminers: Apply to protect new growth during spring, summer, or fall. • Thrips: Applications targeted for thrips will only control the current generation and must be correctly timed. Apply when economic thresholds have been reached (after egg hatch has begun – preferably early to mid-hatch).

^aThe rate of Epi-Mek 0.15 EC per 100 gallons is based on a volume of 1,000 gal/A dilute spray.

^bFor concentrate sprays, adjust the dosage to apply an amount/A equal to that used in full cover dilute spray.

^cGround application: For best results, use 150-300 gal/A of spray mix with a minimum of 3 gal/A of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 MPH.

Use Restrictions – Lychee

- **PHI:** Do not apply within **14 days** of harvest.
- **Application Method:** Ground application only.
- **Amount of Water:** Do not apply in less than 50 gallons of water/A with conventional ground application equipment. When using an electro-static sprayer, less than 50 gallons of water/A may be used; however, do not use less than 5 gallons of water/A.
- **Maximum Amount per Application:** Do not apply more than 20 fl oz/A (or 0.023lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Application Interval:** If a second application is necessary, wait at least 30 days before repeating application.

- **Number of Applications:** Do not make more than 2 applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Maximum Amount per Year:** Do not apply more than 40 fl oz/A (0.046 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.

MINT (peppermint and spearmint)

For control of Twospotted spider mite

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for optimum results. Inadequate coverage may result in reduced control.

Mint

Pest	fl oz/A	Instructions
Twospotted spider mite	8.0-12.0	<ul style="list-style-type: none">• Treat when mites first appear.• For optimum control, a nonionic surfactant or organosilicone-based surfactant should be used at the manufacturer's recommended rate.

Use Restrictions – Mint

- **PHI:** Do not apply within **28 days** of harvest.
- **Application Method:** Ground or aerial application permitted; however, do not apply with aircraft in New York state.
- **Amount of Water:** Do not apply in less than 20 gallons of water/A with ground application equipment. Do not apply in less than 5 gallons of water/A with aircraft. Under conditions such as high pest populations, dense foliage, or adverse application conditions such as high temperatures, use a greater volume of water to ensure adequate coverage.
- **Maximum Amount per Application:** Do not apply more than 12 fl oz/A (or 0.014 lb ai/A) of Epi-Mek 0.15EC or any other foliarly applied abamectin-containing product per application.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** Do not make more than 2 sequential applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product and do not apply more than 3 applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Maximum Amount per Year:** Do not apply more than 36 fl oz/A (or 0.042 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per crop per year.
- **Grazing:** Do not allow livestock to graze or feed treated foliage to livestock.

ONION, BULB CROP SUBGROUP 3-07A

Crops in this group are: daylily, bulb; fritillaria, bulb; garlic, bulb; garlic, great-headed, bulb; garlic, serpent, bulb; lily, bulb; onion, bulb; onion, Chinese, bulb; onion, pearl; onion, potato, bulb; shallot, bulb; cultivars, varieties, and/or hybrids of these.

For control of *Liriomyza* Leafminers and Thrips

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for optimum results. Inadequate coverage can result in reduced control.

Note:

- Apply Epi-Mek 0.15 EC with ground application equipment or aircraft.
- For best control apply Epi-Mek 0.15 EC with ground application equipment. With aerial application, the resulting control of leafminers and thrips could be less than with ground application.

Onion, Bulb (Crop Subgroup 3-07A)

Pest	fl oz/A	Instructions
<i>Liriomyza</i> leafminers Thrips	8.0-16.0	<ul style="list-style-type: none"> • Use 8 - 12 fl oz/A for low to moderate infestations and 13 - 16 fl oz/A for high infestations. • Leafminers: Apply when adult leafminer flies are first observed and repeat application, as needed, to maintain control within constraints of a sound resistance management program. (See Use Restrictions.) • Thrips: Apply in a thrips management program and when thrips are at economic threshold. Repeat application, as needed, to maintain control within constraints of a sound resistance management program. (See Use Restrictions.) Do not use Epi-Mek 0.15 EC as a rescue treatment for thrips control. • Note: Add a non-ionic activator type wetting, spreading and/or penetrating adjuvant approved for use on bulb onion. Do not use binder sticker type adjuvants. Tank mixing with products that have binder or sticker type formulations can reduce Epi-Mek 0.15 EC performance. (See Use Information and Use Restrictions.)

Use Restrictions – Onion, Bulb (Crop Subgroup 3-07A)

- **PHI:** Do not apply within **30 days** of harvest.

- **Application Method:** Ground or aerial application is permitted; however, do not apply with aircraft in New York state.
- **Amount of Water:** Do not apply in less than 20 gallons of water/A with ground application equipment. Do not apply in less than 5 gallons of water/A with aircraft. Under conditions such as high pest populations, dense foliage, or adverse application conditions (such as high temperatures), use a greater volume of water to ensure adequate coverage.
- **Maximum Amount per Application:** Do not apply more than 16 fl oz/A (or 0.019 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** Make 2 consecutive applications of Epi-Mek 0.15 EC then rotate to a chemistry with a different mode of action. Make at least 2 applications of a chemistry with a different mode of action before making additional Epi-Mek 0.15 EC applications. Do not make more than 2 sequential applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product.
- **Maximum Amount per Year:** Do not apply more than 48 fl oz/A (or 0.056 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.

ONION, GREEN CROP SUBGROUP 3-07B

Crops in this group are: chive, fresh leaves; chive, Chinese, fresh leaves; Elegans hosta; fritillaria, leaves; kurrat; lady's leek; leek; leek, wild; onion, Beltsville bunching; onion, fresh; onion, green; onion, macrostem; onion, tree, tops; onion, Welsh, tops; shallot, fresh leaves; cultivars, varieties, and/or hybrids of these.

For control of *Liriomyza* leafminers and Thrips

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for optimum results. Inadequate coverage can result in reduced control.

Note:

- Apply Epi-Mek 0.15 EC with ground application equipment or aircraft.
- For best control apply Epi-Mek 0.15 EC with ground application equipment. With aerial application, the resulting control of leafminers and thrips could be less than with ground application.

Onion, Green Crop Subgroup 3-07B

Pest	Fl oz/A	Instructions
<i>Liriomyza</i> leafminers Thrips	8.0 - 16.0	<ul style="list-style-type: none"> • Use 8 - 12 fl oz/A for low to moderate infestations and 13 - 16 fl oz/A for high infestations. • Leafminers: Apply when adult leafminer flies are first observed and repeat application, as needed, to maintain control within constraints of a sound resistance management program. (See Use Restrictions.) • Thrips: Apply in a thrips management program and when thrips are at economic threshold. Repeat application, as needed, to maintain control within constraints of a sound resistance management program. (See Use Restrictions.) Do not use Epi-Mek 0.15 EC as a rescue treatment for thrips control. • Note: Add a non-ionic activator type wetting, spreading and/or penetrating adjuvant approved for use on bulb onion. Do not use binder or sticker type adjuvants. Tank-mixing with products that have binder or sticker type formulations can reduce Epi-Mek 0.15 EC performance. (See Use Information and Use Restrictions.)

Use Restrictions – Onion, Green (Crop Subgroup 3-07B)

- **PHI:** Do not apply within **7 days** of harvest.
- **Application Method:** Ground or aerial application permitted; however, do not apply with aircraft in New York state or California.
- **Amount of Water:** Do not apply in less than 20 gallons of water/A with ground application equipment. Do not apply in less than 5 gallons of water/A with aircraft. Under conditions such as high pest populations, dense foliage, or adverse application conditions (such as high temperatures), use a greater volume of water to ensure adequate coverage.
- **Maximum Amount per Application:** Do not apply more than 16 fl oz/A (or 0.019 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** Make 2 consecutive applications of Epi-Mek 0.15 EC then rotate to a chemistry with a different mode of action. Make at least 2 applications of a chemistry with a different mode of action before making additional Epi-Mek 0.15 EC applications. Do not make more than 2 sequential applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product.
- **Maximum Amount per Year:** Do not apply more than 64 fl oz/A (or 0.076 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.

PAPAYA

Crops in this group are: papaya, star apple, black sapote, sapodilla, canistel, and mamey sapote.

For control of Twospotted spider mites

Papaya

Pest	For Dilute Sprays ^a fl oz/100 gal	For Concentrate Sprays ^b fl oz/A	Instructions
Twospotted spider mite	1.0 - 2.0	10.0 -20.0 ^c	<ul style="list-style-type: none"> • Apply Epi-Mek 0.15 EC with a minimum of 0.20% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gallon of oil/A (except when specified differently below). • Use 10-15 fl oz of product /A for low to moderate infestations and 15-20 fl oz of product/A for severe infestations. • Mites: Apply when mites first appear during spring, summer, and/or fall.

^aThe rate of Epi-Mek 0.15 EC per 100 gallons is based on a volume of 1,000 gal/A dilute spray.

^bFor concentrate sprays, adjust the dosage to apply an amount/A equal to that used in full cover dilute spray.

^cGround application: For best results, use 150-300 gal/A of spray mix with a minimum of 3 gal/A of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 MPH.

Use Restrictions – Papaya

- **Do not** apply to mango.
- **PHI:** Do not apply within **3 days** of harvest.
- **Application Method:** Ground application only.
- **Amount of Water:** Do not apply in less than 50 gallons of water/A with conventional ground application equipment. When using an electro-static sprayer, less than 50 gallons of water/A may be used; however, do not use less than 5 gallons of water/A.
- **Maximum Amount per Application:** Do not apply more than 20 fl oz/A (or 0.023 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Application Interval:** If a second application is necessary, wait at least 14 days before repeating application.

- **Number of Applications:** Do not make more than 3 applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Maximum Amount per Year:** Do not apply more than 60 fl oz/A (0.070 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.

PINEAPPLE

For control of Twospotted spider mite

Pest	Fl oz/A	Instructions
Twospotted spider mite	10.0 - 20.0	<ul style="list-style-type: none"> • Use 10-15 fl oz/A for low to moderate infestations and 15-20 fl oz/A for high infestations.

Use Restrictions – Pineapple

- **PHI:** Do not apply within **16 weeks** of harvest.
- **Application Method:** Ground application only
- **Amount of Water:** Do not apply in less than 50 gallons of water/A with conventional ground application equipment. When using an electro-static sprayer, less than 50 gallons of water/A may be used; however, do not use less than 5 gallons of water/A.
- **Maximum Amount per Application:** Do not apply more than 20 fl oz/A (or 0.023 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Application Interval:** If a second application is necessary, wait at least 7 days before repeating application.
- **Number of Applications:** Do not make more than 2 applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Maximum Amount per Year:** Do not apply more than 40 fl oz/A (0.046 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.

POME FRUIT CROP GROUP 11-10

Crops in this group are: apple; azarole; crabapple; loquat; mayhaw; medlar; pear; pear, Asian; quince; quince, Chinese; quince, Japanese; tejocote; cultivars, varieties, and/or hybrids of these.

For control of European red mite, McDaniel spider mite, Pear psylla, Pear rust mite, Twospotted spider mite, Yellow mite, Tentiform leafminer, and White apple leafhopper

Epi-Mek 0.15 EC may be applied using conventional dilute or concentrate ground application sprayers calibrated to deliver sufficient water for thorough coverage. Gallons of spray will vary with size and number of trees per acre and density of foliage. In any case, thorough coverage is essential for good spider mite and insect control.

NOTE:

- For best results, apply in combination with horticultural spray oil (not a dormant oil) as directed. Applications without horticultural spray oil may result in reduced efficacy and/or residual control.
- When using Epi-Mek 0.15 EC plus horticultural spray oil, carefully follow the **Directions for Use** and **Precautions** on the horticultural spray oil label as well as the precautions in official spray guides or on product labels. For example, applying Epi-Mek 0.15 EC plus horticultural spray oil fewer than 14 days before or after applying Captan® can result in phytotoxicity and crop loss.

Pome Fruit Crop Group 11-10

Pest	For Dilute Sprays^a fl oz/ 100 gal	For Concentrate Sprays^b fl oz/A	Instructions
European red mite McDaniel spider mite Pear psylla Pear rust mite Tentiform leafminer Twospotted spider mite White apple leafhopper Yellow mite	2.5-5.0	10-20	<ul style="list-style-type: none"> • Apply Epi-Mek 0.15 EC when spider mite or insect thresholds are reached. • A second application may be made if needed to maintain control. (See Use Restrictions.)
Horticultural Spray Oil (not a dormant oil)	0.25% or 1 gal/A	Minimum of 1 gal/A	

^aThe rate of Epi-Mek 0.15 EC per 100 gallons is based on a volume of 400 gal/A dilute spray.

^bTo determine the amount of product per acre for concentrate sprays, first determine the amount that would be required in a full cover dilute spray. Use the same amount of product/A in concentrate sprays as would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10 fl oz/A on small trees.

Use Restrictions – Pome Fruit Crop Group 11-10

- **PHI:** Do not apply within **28 days** of harvest.
- **Application Method:** Ground application only. Do not apply with aircraft.
- **Amount of Water:** Do not apply in less than 40 gallons of water/A.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Maximum Amount per Application:** Do not apply more than 20 fl oz/A (or 0.023 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Application Interval:** If a second application is necessary, wait at least 21 days before repeating application.

- **Number of Applications:** Do not make more than 2 applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Maximum Amount per Year:** Do not apply more than 40 fl oz/A (or 0.047 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Grazing:** Do not allow livestock to graze in treated orchards.

STONE FRUIT CROP GROUP 12-12

Crops in this group are: apricot; apricot, Japanese; capulin; cherry, black; cherry, Nanking; cherry, sweet; cherry, tart; Jujube, Chinese; nectarine; peach; plum; plum, American; plum, beach; plum, Canada; plum, cherry; plum, Chickasaw; plum, Damson; plum, Japanese; plum, Klamath; plum, prune; plumcot; sloe; cultivars, varieties, and/or hybrids of these.

For control of European spider mite, Pacific spider mite, and Twospotted spider mite

Epi-Mek 0.15 EC may be applied using conventional dilute or concentrate sprayers calibrated to deliver sufficient water for thorough coverage. Gallons of spray will vary with size and number of trees per acre and density of foliage. In any case, thorough coverage is essential for good spider mite control.

Stone Fruit Crop Group 12-12

Pest	For Dilute Sprays ^a fl oz/ 100 gal	For Concentrate Sprays ^b fl oz/A	Instructions
European red mite Pacific spider mite Twospotted spider mite	2.5-5.0	10-20	<ul style="list-style-type: none"> • Apply when mites first appear. • A second application may be made, if needed, to maintain control. (See Use Restrictions.) • Always apply Epi-Mek 0.15 EC in combination with a nonionic surfactant that spreads on and/or penetrates the leaf cuticle, or apply with horticultural spray oil (not a dormant oil). • NOTE: <ol style="list-style-type: none"> 1) A nonionic surfactant that spreads on and/or penetrates the leaf cuticle can improve insect control. Although Epi-Mek 0.15 EC has been tested in combination with nonionic surfactants for safety to stone fruit, it is impossible to test on all stone fruit varieties under the variety of conditions that may cause crop injury. Therefore, when using Epi-Mek 0.15 EC in combination with a nonionic surfactant, carefully follow the Directions for Use and Precautions on the surfactant label and in official spray guides.
Horticultural Spray Oil (not a dormant oil) OR Nonionic Surfactant	0.25% or 1 gal/A Labeled Rate	Minimum of 1 gal/A	<ol style="list-style-type: none"> 2) A horticultural oil (not a dormant oil) may improve efficacy and can be used but it may increase the possibility of phytotoxicity to foliage and fruit. <ul style="list-style-type: none"> • Use nonionic surfactants at the manufacturer's recommended rate. • Use a minimum of 0.25% horticultural spray oil (not a dormant oil) in the dilute spray mixture and not less than 1.0 gallon of horticultural spray oil per acre in the final finished spray.

^aThe rate of Epi-Mek 0.15 EC per 100 gallons is based on a volume of 400 gal/A dilute spray.

^bTo determine the amount of product per acre for concentrate sprays, first determine the amount that would be required in a full cover dilute spray. Use the same amount of product per acre in concentrate sprays as would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10 fl oz/A on small trees.

Use Restrictions – Stone Fruit Crop Group 12-12

- **PHI:** Do not apply within **21 days** of harvest.
- **Application Method:** Ground application only. Do not apply with aircraft.
- **Amount of Water:** Do not apply in less than 40 gallons of water/A.
- **Maximum Amount per Application:** Do not apply more than 20 fl oz/A (or 0.023 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Application Interval:** If a second application is needed, wait at least 21 days before repeating application.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Number of Applications:** Do not make more than 2 applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Maximum Amount per Year:** Do not apply more than 40 fl oz/A (or 0.047 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Grazing:** Do not allow livestock to graze in treated orchards.

STRAWBERRIES, LOW GROWING BERRY CROP SUBGROUP 13-07G

Crops in this group are: bearberry; bilberry; blueberry, lowbush; cloudberry; cranberry; lingonberry; muntries; partridgeberry; strawberry; cultivars, varieties, and/or hybrids of these.

For control of Strawberry spider mite and Twospotted spider mite

Mix with water as indicated below. Apply with ground application equipment as a foliar spray and ensure thorough coverage on upper and lower leaf surfaces. Adjust spray volume and nozzle placement to ensure maximum coverage of tops and undersides of leaves.

Strawberries, Low growing berry Crop Subgroup 13-07G

Pest	fl oz/A	Instructions
Strawberry spider mite Twospotted spider mite	16.0	<ul style="list-style-type: none"> • Make 2 applications 7-10 days apart when mites first appear. Repeat this application sequence, if needed, to maintain control. (See Use Restrictions.) • Note: Epi-Mek 0.15 EC may be used without a wetting agent. When necessary to improve the wetting of foliage and to smooth out spray deposits, a nonionic surfactant is recommended.

Use Restrictions – Strawberries, Low growing berry Crop Subgroup 13-07G

- **PHI:** Do not apply within **3 days** of harvest.
- **Application Method:** Ground application only. Do not apply with aircraft.
- **Prohibited Use:** For resistance management purposes, do not use in strawberry nurseries.
- **Amount of Water:** Do not apply in less than 50 gallons of water/A with conventional ground application equipment. When using electro-static sprayers, do not apply in less than 10 gallons of water/A.
- **Maximum Amount per Application:** Do not apply more than 16 fl oz/A (or 0.019 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Application Interval:** Wait at least 21 days after the second application before repeating application.
- **Maximum Amount per Year:** Do not apply more than 64 fl oz/A (or 0.075 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.

TREE NUTS CROP GROUP 14-12

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

For control of European red mite, Pacific spider mite, Strawberry spider mite, and Twospotted spider mite

Epi-Mek 0.15 EC may be applied using conventional dilute or concentrate sprayers calibrated to deliver sufficient water for thorough coverage. Gallons of spray will vary

with size and number of trees per acre and density of foliage. In any case, thorough coverage is essential for good spider mite and insect control.

Tree Nuts Crop Group 14-12

Pest	For Dilute Sprays ^a fl oz/ 100 gal	For Concentrate Sprays ^b fl oz/A	Instructions
European red mite Pacific spider mite Strawberry spider mite Twospotted spider mite	2.5-5.0	10-20	<ul style="list-style-type: none"> Always use Epi-Mek 0.15 EC in combination with a horticultural spray oil (not a dormant oil) approved for use on tree nuts.
Horticultural Spray Oil (not a dormant oil)	0.25% or 1 gal/A	Minimum of 1 gal/A	<ul style="list-style-type: none"> Apply Epi-Mek 0.15 EC when spider mites first appear. Residual spider mite control is greater from spray deposits on newer leaves compared to older leaves. A second application may be made, if needed, to maintain control. (See Use Restrictions.)

^aThe rate of Epi-Mek 0.15 EC per 100 gallons is based on a volume of 400 gal/A dilute spray.

^bTo determine the amount of product per acre for concentrate sprays, first determine the amount that would be required in a full cover dilute spray. Use the same amount of product per acre in concentrate sprays that would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10 fl oz/A on small trees.

Use Restrictions – Tree Nuts Crop Group 14-12

- **PHI:** Do not apply within **21 days** of harvest.
- **Application Method:** Ground application only. Do not apply with aircraft.
- **Amount of Water:** Do not apply in less than 40 gallons of water/A.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Application Interval:** If a second application is necessary, wait at least 21 days before repeating application.
- **Maximum Amount per Application:** Do not apply more than 20 fl oz/A (or 0.023 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per application.
- **Number of Applications:** Do not make more than 2 applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Maximum Amount per Year:** Do not apply more than 40 fl oz/A (or 0.047 lb ai/A) of Epi-Mek or any other foliarly applied abamectin-containing product per year.
- **Grazing:** Do not allow livestock to graze in treated groves/ orchards.

TUBEROUS AND CORM VEGETABLES CROP SUBGROUP 1C

Crops in this subgroup are: arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; canna, edible; cassava (bitter and sweet); chayote (root); chufa; dasheen; ginger; leren; potato; sweet potato; tanier; turmeric; yam bean; and yam (true).

For control of Colorado potato beetle, *Liriomyza* leafminers, Potato psyllid, and Spider mites

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for optimum results. Inadequate coverage may result in reduced control.

Note: Epi-Mek 0.15 EC may be applied using ground application equipment or aircraft. For best control of mites, apply Epi-Mek 0.15 EC with ground application equipment. With aerial application, spray coverage and the resulting control of mites is less than with ground application. For this reason, the user accepts all liability for the level and duration of control of mites when Epi-Mek 0.15 EC is aerially applied.

Tuberous and Corm Vegetables Crop Subgroup 1C

Pest	fl oz/A	Instructions
Colorado potato beetle <i>Liriomyza</i> leafminers Potato psyllid Spider mites	8.0-16.0	<ul style="list-style-type: none"> • Use 8 - 12 fl oz/A for low to moderate infestations and 16 fl oz/A for severe infestations. • The addition of a nonionic surfactant or organosilicone-based surfactant, at the manufacturer's recommended rate, is suggested for optimum spider mite and insect control. • Insect and spider mite control may be reduced if Epi-Mek 0.15 EC is used in combination with a sticker or binder type product such as Bravo® Weather Stik®. • Colorado potato beetle: Make the first application after approximately 50% of the egg masses have hatched and larvae are present. If 2 applications are needed, limit them to a single Colorado potato beetle generation per crop. Do not make more than 2 applications per crop. (See Use Restrictions.) • <i>Liriomyza</i> leafminers: Make the first application when adult flies are first observed. Repeat applications as needed to maintain control. (See Use Restrictions.) • Spider mites: Make the first application when mites first appear. Repeat application as needed to maintain control. (See Use Restrictions.)

Use Restrictions – Tuberous and Corm Vegetables Crop Subgroup 1C

- **PHI:** Do not apply within **14 days** of harvest.
- **Application Method:** Ground or aerial application is permitted; however, do not apply with aircraft in New York state.
- **Amount of Water:** Do not apply in less than 20 gallons of water/A with ground application equipment. Do not apply in less than 5 gallons of water/A with aircraft. Under conditions such as high pest populations, dense foliage, or adverse application conditions (such as high temperatures) use a greater volume of water to ensure adequate coverage.
- **Maximum Amount per Application:** Do not apply more than 16 fl oz /A (or 0.019 lb ai/A) per application.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** Do not make more than 2 sequential applications of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product.
- **Maximum Amount per Year:**
 - For spider mite or Colorado potato beetle control, do not apply more than 32 fl oz/A (or 0.038 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
 - For leafminer control, do not apply more than 48 fl oz/A (or 0.056 lb ai/A) of Epi-Mek 0.15 EC or any other foliarly applied abamectin-containing product per year.
- **Grazing:** Do not allow livestock to graze or feed treated foliage to livestock.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

Pesticide Storage

Store in a tightly closed container in a cool, dry place.

Pesticide Disposal

Waste resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available or 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. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ 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.

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