

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

5/17/07

Greg Watson
Syngenta Crop Protection, Inc.
PO Box 18300
Greensboro, NC 27419re: Epi-Mek 0.15EC Miticide/Insecticide, EPA Reg. # 100-1154
label amendment submitted 5/16/2007 (via email)
accepted

Dear Mr. Watson:

This label amendment restores the citrus directions to 3 applications (it had been voluntarily reduced in 2005 to 1 application for resistance management stewardship). The change was requested to aid in controlling citrus leafminer and thus reduce inoculum levels of the bacteria which causes citrus canker. The revised labeling submitted in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is ACCEPTABLE.

Submit two (2) copies of your final printed labeling incorporating the above changes prior to releasing your product for shipment. If the above provisions are not complied with the registration will be subject to cancellation in accordance with FIFRA Section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A copy of the label stamped "accepted" is enclosed for your records.

Sincerely yours,

A handwritten signature in black ink, appearing to be "TCH", written over a white background.

Thomas C. Harris
Biologist
Insecticide Rodenticide Branch
Registration Division (7505C)
Harris.Thomas@epa.gov
(703) 308-9423

enclosure

2744

RESTRICTED USE PESTICIDE
TOXIC TO FISH, 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

Group **6** Insecticide

Active Ingredient:

Abamectin (CAS No. 65195-56-4 and No. 65195-55-3).....2.0%*

Other Ingredients:.....98.0%

Total:.....100.0%

*1 gal. contains 0.15 lb. abamectin

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. xxxxx

SCP 1154A-M(draft-citrus)

1 gallon
Net Contents

ACCEPTED
MAY 17 2007

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

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.
NOTE TO PHYSICIAN	
<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>	
HOT LINE NUMBER	
<p>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. Do not breathe spray mist. Avoid contact with skin. Prolonged or frequently repeated exposure may cause allergic skin reactions in some individuals.

Personal Protective Equipment

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

Applicators and other handlers must wear:

- Coveralls worn over short-sleeved shirt and short pants
- *Chemical-resistant gloves* –EPA chemical-resistance category B (e.g., 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, 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 immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

This pesticide is toxic to fish and wildlife. 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.

Physical or Chemical Hazards

Do not use or store near heat or open flame.

ATTENTION

This product contains a chemical (N-methyl pyrrolidone) 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 should 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, Inc. or Seller. All such risks shall be assumed by Buyer and User, and 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. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **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 PRODUCT

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.

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 – EPA chemical-resistance category B (e.g., 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.

GENERAL 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, 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 Precautions for Epi-Mek 0.15EC Use on Celeriac, Cucurbits, Fruiting Vegetables, Grapes, Leafy Vegetables, Potatoes and Strawberries.

- Do not apply with ground application equipment within 25 ft., or with aircraft within 150 ft. of lakes, reservoirs, rivers, permanent streams, marshes, potholes, natural ponds, estuaries, or commercial fish farm ponds.
- All aerial and ground application equipment must be properly calibrated, using appropriate carriers, and maintained. For aerial applications, mount the spray boom on the aircraft in a manner that minimizes drift caused by wing tip vortices. Use the minimum practical boom length but do not exceed 75% of wingspan or rotor diameter.
- Use the largest droplet size consistent with good pest control. Minimize the formation of very small droplets by selecting appropriate nozzles, orienting nozzles away from the air stream as much as possible, and avoiding excessive spray boom pressure. Release the spray at the lowest height consistent with pest control and flight safety. Avoid application more than 10 ft. above the crop canopy.
- Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3-10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph. Avoiding applications when wind direction is toward the aquatic area can reduce risk of exposure to aquatic areas. Do not cultivate within 25 ft. of the aquatic area to allow growth of a vegetative filter strip.

- Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore increase the likelihood of spray drifting to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.
- Do not make aerial or ground applications during temperature inversions. Inversions are characterized by stable air and temperatures that increase with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Resistance Management

Epi-Mek 0.15 EC is a Group 6 insecticide (contains the active ingredient abamectin). Because of the inherent risks of pests developing resistance to any product, it is strongly advised that Epi-Mek 0.15 EC be used in a sound resistance management program. Treatment may not be effective against labeled pests if insect or mite-tolerant strains develop. When applying Epi-Mek 0.15 EC to plants that are hosts of labeled pests with multiple generations per crop per year, use resistance management practices.

Resistance management practices may include, but are not limited to:

- rotating Epi-Mek 0.15EC with other products with different modes of action,
- avoiding treatment of successive generations with the Epi-Mek 0.15EC,
- using labeled rates at the specified spray intervals,
- using non-chemical alternatives such as beneficial arthropods,
- rotating susceptible to non-susceptible plants, and
- using various cultural practices

For additional information regarding the implementation of these or other resistance management practices, consult your local agricultural advisor or company representative.

CROP USE DIRECTIONS

Almonds and Walnuts

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.

Almonds and Walnuts

Pest	For Dilute Sprays ^a fl. oz./100 gals.	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 almonds/walnuts. • 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)
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 gals. is based on a volume of 400 gals./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 – Almonds and Walnuts

- **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 gals. of water/A.

- **Buffer Zone:** To reduce the risk to aquatic organisms, maintain a 25-yard buffer zone around all water bodies containing aquatic life (streams, ponds, lakes, rivers, springs, irrigation canals containing water year-round, swamps, bogs and marshes).
- **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. of Epi-Mek 0.15 EC/A per application
- **Applications per Season:** Do not make more than 2 applications per growing season.
- **Maximum Amount per Season:** Do not apply more than 40 fl. oz./A in a growing season.
- **Grazing:** Do not allow livestock to graze in treated orchards.

Apples

For control of European red mite, McDaniel spider mite, Tentiform leafminer, Twospotted spider mite, 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 used alone or when other products are applied sequentially, Epi-Mek 0.15 EC in combination with horticultural spray oil may injure the fruit of certain apple varieties (e.g. russetting on light-skinned varieties such as Golden Delicious).
- When using Epi-Mek 0.15EC 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 in less than 14 days before or after applying Captan® can result in phytotoxicity and crop loss.

Apples

Pest	For Dilute Sprays ^a fl. oz./ 100 gals.	For Concentrate Sprays ^b fl. oz./A	Instructions
European red mite McDaniel spider mite Tentiform leafminer Twospotted spider mite White apple leafhopper	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	<ul style="list-style-type: none"> • Spider Mites: For best results, apply before a threshold of 5 spider mites per leaf is reached. Residual spider mite control with Epi-Mek 0.15 EC in combination with horticultural spray oil (not a dormant oil) is greater from spray deposits on newer leaves compared to older. Applications of Epi-Mek 0.15 EC for spider mite control should be limited to a period extending from petal fall through 6 weeks following petal fall. • Tentiform Leafminer: For best results, apply against egg (to control new hatch) and early sap feeder stages of first and second-generation tentiform leafminers when locally established thresholds have been reached. Do not apply during bloom. • White Apple Leafhopper (Not for use west of the Rocky Mountains): Application of Epi-Mek 0.15 EC is limited only to first generation white apple leafhoppers. Apply soon after petal fall in combination with horticultural spray oil (not a dormant oil).

^aThe rate of Epi-Mek 0.15 EC per 100 gals. is based on a volume of 400 gals./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 – Apples

- **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 gals. of water/A.
- **Maximum Amount per Application:** Do not apply more than 20 fl. oz. of Epi-Mek 0.15 EC/A 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 per growing season.
- **Maximum Amount per Season:** Do not apply more than 40 fl. oz./A in a growing season.
- **Spray Drift:** Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, reservoirs, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds:
 - Spray last 3 rows windward of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas.
 - Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.
 - 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.
 - Do not apply during a temperature inversion.

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 aerially 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% NR (narrow range) 415 oil in combination with 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 gals./A apply Epi-Mek 0.15 EC at a rate of 2.5 fl. oz. per 100 gals. of water plus 1.0% - 4.0% of an NR 415 oil. • 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.

16 3 44

*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 gals. of water with ground equipment or 50 gals. of water with aircraft.
- **Maximum Amount per Application:** Do not apply more than 20 fl. oz./A per application.
- **Application Interval:** Wait at least 30 days before repeating application.
- **Number of Applications:** Do not make more than 2 applications per season
- **Maximum Amount per Season:** Do not apply more than 40 fl. oz./A per season.

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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.
- **Amount of Water:** Do not apply in less than 20 gals. of water/A.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** For resistance management, do not make more than 2 sequential applications.
- **Maximum Amount per Season:** Do not apply more than 48 fl. oz./A after transplanting.

18744

Citrus Fruit Crop Group

Some of the crops in this group are: Citrus citron, Citrus hybrids, *Citrus species* (includes chironja, tangelo, tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Sour orange, and Sweet orange.

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

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

Citrus Fruit Crop Group

Pest	For Dilute Sprays ^a fl. oz./100 gals.	For Concentrate Sprays ^b fl. oz./A	Instructions
Asian citrus psyllid	--	10-20 ^c	<ul style="list-style-type: none"> • Applications should be made with a minimum of 0.20% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gal. of oil/A (except when specified differently below). • Asian Citrus Psyllid: Apply 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 rust mite	0.5-2.0	5-20 ^c	
Twospotted spider mite	1.0-2.0	10-20	
Citrus leafminer	--	5-20 ^c	
Citrus thrips	--	10-20 ^e	

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

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

^cFor best results, use 150-300 gals./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 gals./A of spray mix with a minimum of 0.5% horticultural spray oil (not a dormant oil).

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

20 744

Use Restrictions – Citrus Fruit Crop Group

- **PHI:** Do not apply within 7 days of harvest.
- **Application Method:** Ground application only. Do not apply with aircraft.
- **Prohibited Use:** To manage resistance do not use in citrus nurseries.
- **Application Interval:** Do not apply Epi-Mek 0.15 EC, or any other abamectin containing product, within 30 days of the last treatment.
- **Maximum Amount per Season:** Do not apply more than 40 fl. oz./A (0.047 lb. a.i./A) of Epi-Mek 0.15 EC, or any other abamectin containing product, in any growing season. Do not make more than 3 applications of Epi-Mek 0.15 EC, or any other abamectin containing product, in any growing season.
- **Spray Drift:** Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, reservoirs, permanent streams, marshes, natural ponds, estuaries, or commercial fish farm ponds.
 - Spray last 3 rows windward of aquatic areas using nozzles on 1 side only, with spray directed away from aquatic areas.
 - Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.
 - 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.
 - Do not apply during a temperature inversion.

21 7 44

Cotton

Epi-Mek 0.15 EC is an emulsifiable concentrate containing 0.15 lb. abamectin/gal. which, when mixed with water according to the Directions for Use, will control spider mites (twospotted, carmine, Pacific, and strawberry) on cotton.

For control of spider mites on cotton, mix with water and apply at the rates given in the following table:

Pest	Fl. oz./A		Instructions
	Mid-season /Lay-by	Early Season	
Spider Mites Twospotted Carmine Pacific Strawberry	8-16	4-6	<p>Mix with water and begin application when mites are first noticed.</p> <p>Early Season Application:</p> <ul style="list-style-type: none"> • Apply when cotton is less than 10 inches tall. • Use 4-6 fl. oz./A; do not use less than 4 fl. oz./A. <p>Mid-season/lay-by application:</p> <ul style="list-style-type: none"> • Use 8-16 fl. oz./A depending on size of the plant and density of the foliage.

Use Restrictions - Cotton

- **Location:** Do not apply to cotton east of the Mississippi River
- **PHI:** Do not apply within 20 days of harvest.
- **Application Method:**
 - Early season:** Use only ground application equipment; aerial application is not permitted.
 - Mid-season/lay-by:** Application with ground application equipment and aircraft (fix-winged or helicopter) is permitted.
- **Amount of water:** Do not apply in fewer than 5 gallons of water/A with aerial application equipment.
- **Application interval:** Wait at least 21 days before repeating application
- **Maximum Amount per Season:** Do not apply more than 32 fl. oz./A or more than 2 applications per growing season.
- **Grazing Restriction:** Do not feed cotton foliage to livestock or allow livestock to graze treated cotton.

Cucurbits Crop Group

Some of the crops in this group are: Citron Melon, Cucumbers, Gherkin, Edible Gourds, (includes hyotan, cucuzza, hechima, Chinese okra); *Momordica* spp., (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); Muskmelon, Cantaloupe, Pumpkin, Summer Squash, Winter Squash, (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); Watermelon.

For Control of Spider mites and Leafminers

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.

Cucurbits Crop Group

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 Crop Group

- **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 gals. of water/A with ground application equipment. Do not apply in less than 5 gals. 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 insure adequate coverage.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** Do not make more than 2 sequential applications.
- **Maximum Amount per Season:** Do not apply more than 48 fl. oz./A in a growing season.

Fruiting Vegetable Crop Group

Some of the crops in this group are: Tomato; eggplant; peppers (includes bell pepper, chili pepper; cooking pepper, pimento, sweet pepper); Tomatillo

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

Pest	fl. oz./A.	Instructions
Broad mite Colorado potato beetle <i>Liriomyza</i> leafminers Spider mites Thrips palmi 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.
Tomato pinworm	16.0	<ul style="list-style-type: none"> • 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. • Repeat application as necessary to maintain control. (See Use Restrictions). • Note: Epi-Mek 0.15EC 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 – Fruiting Vegetables Crop Group

- **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 gals. of water/A with ground application equipment. Do not apply in less than 5 gals. 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 insure adequate coverage.
- **Application Interval:** Wait at least 7 days before repeating application, but do not make more than 2 sequential applications.
- **Maximum Amount per Season:** Do not apply more than 48 fl. oz./A in a growing season.

Grapes

For control of Pacific spider mite, Twospotted spider mite, 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

Pest	fl. oz./A	Instructions
Pacific spider mite Twospotted spider mite Willamette spider mite Western grapeleaf skeletonizer	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. For optimum control, apply shortly after egg hatch.

Use Restrictions – Grapes

- **PHI:** Do not apply within **28** days of harvest
- **Application Method:** Ground application only.
- **Amount of Water:** Do not apply in less than 50 gals. of water/A with conventional ground application equipment.
- When using an electro-static sprayer, less than 50 gals. of water/A may be used , however do not use less than 5 gals. of water/A.
- **Maximum Amount per Application:** Do not apply more than 16 fl. oz./A 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 per growing season.
- **Maximum Amount per Season:** Do not apply more than 32 fl. oz./A in a growing season.
- **Grazing:** Do not allow livestock to graze in treated vineyards.

Herb Crop Subgroup (Except Chives)

Some of the crops in this subgroup are: basil; camomile; catnip; coriander (leaf); dill weed; lavender; marigold; marjoram (*Oiganum* species); nasturtium; parsley (dried); rosemary; sage; summer and winter savory; tarragon; thyme; and wintergreen.

For control of *Liriomyza* leafminers

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 (Except Chives)

Pest	fl. oz./A.	Instructions
<i>Liriomyza</i> leafminers	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 flies are first observed and repeat application, as necessary to maintain control. (See Use Restrictions). • Epi-Mek 0.15EC 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. • 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 (Except Chives)

- **PHI:** Do not apply within 14 days of harvest
- **Application Method:** Apply with ground application equipment.
- **Amount of Water:** Use a minimum of 30 gals of water/A.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** Do not make more than 2 applications per single cutting (harvest).
- **Maximum Amount per Season:** Do not make more than 6 applications per cropping season at the 8 fl. oz./A rate or 3 applications per cropping season at the 16 fl. oz./A rate.

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 gals. of water/A. • For applications beyond ½ trellis growth, do not use less than 16 fl. oz./A in a minimum of 100 gals. 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.
- **Number of Applications:** Do not make more than 2 applications (32 fl. oz./A) per growing season.
- **Grazing:** Do not allow livestock to graze in treated hops yards.
- **Spray Drift Precautions**
 - All ground application equipment must be properly calibrated using appropriate carriers and maintained.

- Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, reservoirs, permanent streams, marshes, natural ponds, estuaries, or commercial fish farm ponds:
 - Do not apply with ground application equipment within 25 ft. of the above-mentioned aquatic areas. Avoid application when wind direction is toward these areas.
 - Do not make ground applications during temperature inversions or if heavy rainfall is imminent. Inversions are characterized by stable air and temperatures that increase with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.
- Use the largest droplet size consistent with good pest control. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
- Apply with ground application equipment when the wind velocity favors on-target product deposition (approximately 3-10 mph). Do not apply when wind velocity or wind gusts approach 15 mph. Inclusion of a compatible drift reducing agent is encouraged.
- Low humidity and high temperature increase the evaporative rate of droplets and therefore increase spray drift potential. When making applications under these conditions, set up equipment to produce larger droplets to compensate for evaporation.

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Leafy Vegetable Crop Group

Some of the crops in this group are: Celery, Lettuce (head and leaf), Amaranth (Chinese spinach), Garden cress, Upland cress, Dandelion, Endive, Fennel, Parsley, Radicchio, Rhubarb, 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 Vegetable Crop Group

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 0.15EC 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 – Leafy Vegetable Crop Group

- **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 leafy vegetables grown for transplanting.
- **Amount of Water:** Do not apply in less than 20 gals. of water/A. with ground application equipment. Do not apply in less than 5 gals. 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 insure adequate coverage.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of applications:** Do not make more than 2 sequential applications.
- **Maximum Amount per Season:** Do not apply more than 48 fl. oz./A. per growing season.

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 gals. of water/A with ground application equipment. Do not apply in less than 5 gals. 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 insure adequate coverage.
- **Maximum Amount per Application:** Do not apply more than 12 fl. oz/A per application.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** Do not make more than 2 sequential applications and do not apply more than 3 applications per season.
- **Maximum Amount per Season:** Do not apply more than 36 fl. oz./A per crop per season.
- **Grazing:** Do not allow livestock to graze or feed treated foliage to livestock.

Pears (including Oriental pear trees)

For control of European red mite, McDaniel spider mite, Pear psylla, Pear rust mite, Twospotted spider mite, and Yellow mite

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 0.15EC 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 in less than 14 days before or after applying Captan® can result in phytotoxicity and crop loss.

Pears

Pest	For Dilute Sprays ^a fl. oz./100 gals.	For Concentrate Sprays ^b fl. oz./A	Instructions
European red mite McDaniel spider mite Pear psylla Pear rust mite Twospotted spider mite 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 gals. is based on a volume of 400 gals./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 – Pears

- **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 gals. of water/A.
- **Maximum Amount per Application:** Do not apply more than 20 fl. oz. of Epi-Mek 0.15 EC/A 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 per growing season.
- **Maximum Amount per Season:** Do not apply more than 40 fl. oz./A in a growing season.
- **Spray Drift:** Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, reservoirs, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds.
 - Spray last 3 rows windward of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas.
 - Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.
 - 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.
 - Do not apply during a temperature inversion.

Plums and Prunes

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

Epi-Mek 0.15EC 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.

Plums and Prunes

Pest	For Dilute Sprays ^a fl.oz./100 gals.	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 0.15EC 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 plum/prune 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.

Pest	For Dilute Sprays ^a fl.oz./100 gals.	For Concentrate Sprays ^b fl. oz./A	Instructions
Horticultural Spray Oil (not a dormant oil) OR Nonionic Surfactant	0.25% or 1 gal./A Labeled Rate	Minimum of 1 gal./A	(continued) 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. • 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 gal. of horticultural spray oil per acre in the final finished spray.

^aThe rate of Epi-Mek 0.15EC per 100 gals. is based on a volume of 400 gals./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 – Plums and Prunes

- **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 gals. of water/A.
- **Maximum Amount Per Application:** Do not apply more than 20 fl. oz./A per application.
- **Application Interval:** If a second application is needed, wait at least 21 days before repeating application.
- **Number of Applications:** Do not make more than 2 applications per growing season.
- **Maximum Amount per Season:** Do not apply more than 40 fl. oz./A in a growing season.
- **Grazing:** Do not allow livestock to graze in treated orchards.
- **Spray Drift:** Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, reservoirs, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds:

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- Spray last 3 rows windward of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas.
- Avoid spray going over tops of trees by adjusting or turning off top nozzles.
- Shut off nozzles on the side away from the grove/orchard when spraying the outside row.
- Shut off nozzles when turning at ends of row and passing tree gaps in rows.
- Do not apply Epi-Mek 0.15EC when weather conditions favor drift to aquatic areas. Do not apply within 100 ft. upwind of aquatic areas or when wind speed is above 8 mph.
- Do not apply during a temperature inversion.

Potatoes

For control of Colorado potato beetle, *Liriomyza* 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 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.

Potatoes

Pests	fl. oz./A	Instructions
Colorado potato beetle Spider mites <i>Liriomyza</i> leafminers	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 – Potatoes

- **PHI:** Do not apply within 14 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 gals. of water/A with ground application equipment. Do not apply in less than 5 gals 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 insure adequate coverage.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** Do not make more than 2 sequential applications.
- **Maximum Amount per Crop:** Do not apply more than 32 fl. oz./A per crop for spider mite or Colorado potato beetle control. Do not apply more than 48 fl. oz./A. per crop for leafminer control.
- **Grazing:** Do not allow livestock to graze or feed treated foliage to livestock.

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 insure thorough coverage on upper and lower leaf surfaces. Adjust spray volume and nozzle placement to insure maximum coverage of tops and undersides of leaves.

Strawberries

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

- **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 gals. 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 per application.
- **Application Interval:** Wait at least 21 days after the second application before repeating application.
- **Maximum Amount per Season:** Do not apply more than 64 fl. oz./A in a growing season.

STORAGE AND DISPOSAL

Prohibitions

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

Storage


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

Pesticide Disposal

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

Container Disposal

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by State and local authorities.

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SCP 1154A-M(draft-citrus)

Epi-Mek 1154A-M(draft-citrus)-lg-5-14-07 000100-01154.20070514.citrus.pdf

(ContainerLabel)

RESTRICTED USE PESTICIDE

**TOXIC TO FISH, 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

Group **6** Insecticide

Active Ingredient:

Abamectin (CAS No. 65195-56-4 and No. 65195-55-3).....2.0%*

Other Ingredients:.....98.0%

Total:.....100.0%

*1 gal. contains 0.15 lb. abamectin

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.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-1154

EPA Est. xxxxx

SCP 1154A-M(draft-citrus)

1 gallon

Net Contents

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. Do not breathe spray mist. Avoid contact with skin. Prolonged or frequently -repeated exposure may cause allergic skin reactions in some individuals.

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.
NOTE TO PHYSICIAN	
<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>	

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

HOT LINE NUMBER

For 24-Hour Medical Emergency Assistance (Human or Animal)
Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident)

Call

1-800-888-8372

Environmental Hazards

This pesticide is toxic to fish and wildlife. 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.

Physical or Chemical Hazards

Do not use or store near heat or open flame.