

PM 3

100-898

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

4/24/98

1/24

April 24, 1998

Dr. Robert Wurz  
Novartis Crop Protection, Inc.  
P.O. Box 18300  
Greensboro NC 27419-8300

Dear Dr. Wurz:

Subject: Amendment - Updated Labeling, General Revisions  
Agri-Mek® Insecticide/Miticide  
EPA Reg. No. 100-898  
Your November 7, 1997 Submission

The labeling for the product referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable provided that you make the labeling changes indicated below prior to release for shipment of product bearing the amended labeling.

- Under the directions for use on apples, add for tentiform leafminer to the table. See previous EPA stamped label of March 19, 1997.
- Under the directions for citrus, you should add the following restrictions, as specified for other orchard crops currently on the label:

"Spray last three 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 Agri-Mek 0.15 EC when weather conditions favor drift to aquatic areas. Do not apply within 110 feet upwind of aquatic areas or when wind speed is above 8 mph. Do not apply during temperature inversion."

- Confirm that the statement "Not registered for use in California" under the directions for hops is necessary. This statement was not on the previous EPA stamped label of March 19, 1997.

CONCURRENCES

SYMBOL								
SURNAME	SULLO							
DATE	4-24-98							

2/24

Page Two  
EPA Reg. No. 100-898

- 4. Under the directions for potatoes, include the following (see previous EPA label of March 19, 1997):

“To reduce the risk to aquatic environments, maintain a 25-foot buffer zone from all water bodies containing aquatic life (streams, ponds, lakes, rivers, springs, irrigation canals containing water year-round, swamps, bogs and marshes). Do not cultivate within 10 feet of the aquatic area as to allow growth of a vegetative strip.”

- 5. Under use restrictions for potatoes, change “on” to “or” in the first bullet.

Submit two copies of your final printed labeling for our records. A stamped copy of the label is enclosed for your records.

Sincerely,

George T. LaRocca  
Product Manager  
Insecticide Branch  
Registration Division (7505C)

Enclosure

EPA Form 1500-2 (1-90)				DATE	2/24/98
Printed on Recycled Paper				SYMBOL	
Default File Copy				SERIAL	2018

3/24

(BOOKLET)

✓ **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.**

Agri-mek® 0.15EC

MITICIDE/INSECTICIDE

Active Ingredient:

Abamectin (CAS No. 65195-56-4 and No. 65195-55-3)	.....1.9%*
---	------------

Other Ingredients:	98.1%
--------------------	-------

Total:	100.0%
--------	--------

\*1 gallon contains 0.15 pound abamectin

EPA Reg. No. 100-898

EPA Est. 39578-TX-001

Made in U.S.A.

**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 inside for additional precautionary statements and statement of practical treatment.

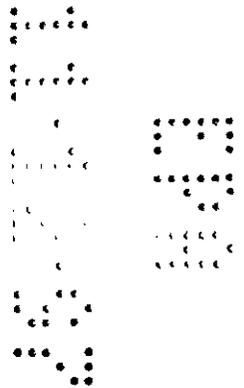
NCP 898A-L1A 1097

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

APR 24 1998

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

100-898



4/24

**DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY**

**IMPORTANT:** Read the entire **Directions for Use** and the **Conditions of Sale and Warranty** before using this product. If terms are not acceptable, return the unopened product container at once.

---

**Conditions of Sale and Warranty**

---

The **Directions for Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Novartis Crop Protection, Inc. or the Seller. All such risks shall be assumed by the Buyer.

Novartis warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use** subject to the inherent risks referred to above. **Novartis makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Novartis or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.** Novartis and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing **Conditions of Sale and Warranty**, which may be varied only by agreement in writing signed by a duly authorized representative of Novartis.

5/24

---

**DIRECTIONS FOR USE**

---

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

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

✓ **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The 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, such as barrier laminate or butyl rubber
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

6/24

- ✓ Do not apply this product through any type of irrigation system. Do not apply by aircraft. Thorough coverage is essential for good mite and insect control on crops.
- ✓ Agri-Mek 0.15 EC is an emulsifiable concentrate which will control certain pests on the crops listed on this label when applied according to the Directions for Use.
- ✓ Agri-Mek 0.15 EC has been tested for phytotoxicity and has a wide margin of safety on a variety of crops. Agri-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 to assure the physical compatibility and lack of phytotoxic effect of any proposed mixtures with Agri-Mek 0.15 EC.
- ✓ **Resistance Management:** Because of the inherent risks of resistance development to any product, it is strongly advised that Agri-Mek 0.15 EC be used in a sound resistance management program which includes rotation with other products with different modes of action.
- ✓ **Almonds and Walnuts:** For control of two-spotted spider mite, Pacific spider mite, and European red mite.
- ✓ Agri-Mek 0.15 EC may be applied using conventional dilute or concentrate sprayers calibrated to deliver sufficient water for thorough coverage. Gallonage 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. Always apply in combination with horticultural spray oil (not a dormant oil) as directed. Do not graze treated orchards. To reduce the risk to aquatic environments, maintain a 25-yard buffer zone from all water bodies containing aquatic life (streams, ponds, lakes, rivers, springs, irrigation canals containing water year-round, swamps, bogs and marshes).
- ✓ Use Agri-Mek 0.15 EC in combination with a horticultural spray oil (not a dormant oil) approved for use on almonds and walnuts. Apply Agri-Mek 0.15 EC when spider mites first appear. A second application may be made if necessary to maintain control.

7/29

Pests	For Dilute Sprays <sup>a</sup> fl. oz./100 gal.	For Concentrate Sprays <sup>b</sup> fl. oz./A
Two-spotted spider mite Pacific spider mite Strawberry spider mite European red mite	2.5-5.0	10-20
Horticultural Spray Oil*	0.25% or 1 gal./acre	Minimum of 1 gal./acre

\*Not a dormant oil

- ✓ a: The rate of Agri-Mek 0.15 EC per 100 gallons is based on a volume of 400 gallons per acre dilute spray.
- ✓ b: To 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./acre on small trees.

#### Use Restrictions - Almonds and Walnuts

- ✓ • Do not exceed 20 fl. oz. Agri-Mek 0.15 EC per acre per application or 40 fl. oz. per acre in a growing season.
  - ✓ • Do not make more than two (2) applications per growing season.
  - ✓ • Do not apply in less than 40 gallons of water per acre.
  - ✓ • If a second application is necessary, do not retreat within 21 days.
  - ✓ • Do not apply within 21 days of harvest.
- ✓ **Apples: For control of tentiform Leafminers and spider mites including European red mite, two-spotted spider mite, and McDaniel spider mite**
- ✓ Agri-Mek 0.15 may be applied using conventional dilute or concentrate ground sprayers calibrated to deliver sufficient water for thorough coverage. Gallonage 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. 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. Do not graze treated orchards.
- ✓ 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.

8/24

- ✓ Spray last three 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 Agri-Mek 0.15 EC when weather conditions favor drift to aquatic areas.
- ✓ Do not apply within 110 feet upwind of aquatic areas or when wind speed is above 8 mph.
- ✓ Do not apply during a temperature inversion.
- ✓ For best results, use Agri-Mek 0.15 EC in combination with a horticultural spray oil\* approved for use on apples. Apply Agri-Mek 0.15 EC when spider mite or tentiform leafminer thresholds are reached. A second application may be made if necessary to maintain control.
- ✓ **Spider Mites:** For best results, apply before a threshold of 5 spider mites per leaf is reached. Residual spider mite control with Agri-Mek 0.15 EC in combination with horticultural spray oil\* is greater from spray deposits on newer leaves compared to older. Applications of Agri-Mek 0.15 EC for spider mite control should be limited to a period extending from petalfall through six weeks following petalfall.
- ✓ **Tentiform Leafminer:** For best results, apply against<sup>7</sup> 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.

9/24

Pests	For Dilute Sprays <sup>a</sup> fl. oz./100 gal.	For Concentrate Sprays <sup>b</sup> fl. oz./A
Two-spotted spider mite Pacific spider mite Strawberry spider mite European red mite	2.5-5.0	10-20
Horticultural Spray Oil*	0.25% or 1 gal./acre	Minimum of 1 gal./acre

AS.1

*tenis... leafminer*

✓ (For best results use oil with Agri-Mek 0.15EC)

✓ \*Not a dormant oil

✓ a: The rate of Agri-Mek 0.15 EC per 100 gallons is based on a volume of 400 gallons per acre dilute spray.

✓ b: To 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./acre on small trees.

**Use Restrictions - Apples**

- ✓ • Do not exceed 20 fl. oz. Agri-Mek 0.15 EC per acre per application or 40 fl. oz. per acre in a growing season.
- ✓ • Do not make more than two (2) applications per growing season.
- ✓ • Do not apply in less than 40 gallons of water per acre.
- ✓ • If a second application is necessary, do not retreat within 21 days.
- ✓ • Do not apply within 28 days of harvest.
- ✓ • Agri-Mek 0.15 EC in combination with horticultural spray oil\* may cause fruit injury to certain varieties of apples, e.g., russetting on light-skinned varieties such as Golden Delicious, when used alone or when other products are applied sequentially. The Directions for Use and Precautions on horticultural spray oil\* labels, as well as precautions in official spray guides should be followed carefully when using Agri-Mek 0.15 EC in combination with horticultural spray oil\*.

✓ \*Not a dormant oil.

✓ **Bell Peppers:** For control of *Liriomyza* leafminers, spider mites and broadmites on bell peppers.

Mix with water as indicated below and apply thoroughly as a foliar spray

10/24

✓ to assure good upper and lower leaf coverage. For broadmites and spider mites, apply when mite damage first appears. For leafminers, apply when adult flies are first observed. In all cases, repeat applications as necessary to maintain control.

Pests	fl. oz./acre
✓ <i>Liriomyza</i> leafminers Spider mites Broadmite	✓ 8.0-16.0

**Use Restrictions - Bell Peppers**

- ✓ • Do not exceed 48 fl. oz. per acre in a growing season.
- ✓ • Do not apply at less than 7-day intervals.
- ✓ • Do not apply within 7 days of harvest.
- ✓ • Do not apply in less than 20 gallons of water per acre.
- ✓ • Do not make more than two sequential applications.

✓ **Celery:** For control of *Liriomyza* leafminers and spider mites (twospotted and carmine) on celery

✓ Mix with water as indicated below and apply by ground equipment as a foliar spray to assure good upper and lower leaf coverage. Use 8 fl. oz./acre for low to moderate infestations and 16 fl. oz./acre for severe infestations. For spider mites, apply when mites first appear and repeat as necessary to maintain control. For leafminers, apply when adult flies are first observed and repeat applications as necessary to maintain control, but not at intervals of less than 7 days.

Pests	fl. oz./acre
✓ <i>Liriomyza</i> leafminers Spider mites	8.0-16.0

**Use Restrictions - Celery**

- ✓ • Do not apply at less than 7-day intervals.
- ✓ • Do not exceed 48 fl. oz. per acre after transplanting.
- ✓ • Do not apply within 7 days of harvest.
- ✓ • Do not apply in less than 20 gallons of water per acre.

11/24

- ✓ For resistance management purposes, use no more than two applications on celery being grown for transplanting.
- ✓ Do not make more than two sequential applications after transplanting.
- ✓ **Note:** Agri-Mek 0.15 EC may be used without any wetting agent. When necessary to improve the wetting of foliage and to smooth out spray deposits, a non-ionic surfactant is recommended.

✓ **Citrus**

Agri-Mek 0.15 EC is an emulsifiable concentrate which will control citrus rust mite, broad mite, two-spotted mite, citrus bud mite, citrus leafminer, and citrus thrips when applied according to the **Directions for Use**. Apply using conventional dilute or concentrate ground sprayers calibrated to deliver sufficient water for thorough coverage (or outside coverage for citrus leafminers and citrus thrips). Gallonage 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.

- ✓ Applications should be made with a minimum of 0.20% horticultural spray oil\* in the spray mixture or not less than 1.0 gallon of oil per acre (except where specified differently below).
- ✓ **Mites:** Apply when mite pressure appears during spring, summer and/or fall.
- ✓ **Citrus Bud Mite:** For best results, time the spray at "budswell."
- ✓ **Citrus Leafminer:** Apply to protect new growth during spring, summer or fall.
- ✓ **Citrus Thrips:** Spray applications 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).
- ✓ Not a dormant oil.

12/24

Pests	For Dilute Sprays <sup>a</sup> fl. oz./100 gal.	For Concentrate Sprays <sup>b</sup> fl. oz./A
✓ Citrus Rust Mite	0.5-2.0	✓ 5-20
✓ Broadmite	1.0-2.0	✓ 10-20
✓ Two-spotted Spider Mite	1.0-2.0	✓ 10-20
✓ Citrus Bud Mite	1.0-2.0	✓ 10-20 <sup>c</sup>
✓ Citrus Leafminer	--	✓ 10-20 <sup>d</sup>
✓ Citrus Thrips	--	✓ 10-20 <sup>e</sup>
Horticultural Spray Oil*	Minimum 0.2%	Minimum of 1 gal./acre

✓ <sup>a</sup>: The rate of Agri-Mek 0.15 EC per 100 gallons is based on a volume of 1,000 gallons per acre dilute spray.

✓ <sup>b</sup>: For concentrate sprays, adjust the dosage to apply an amount per acre equal to that used in full cover dilute spray.

✓ <sup>c</sup>: For best results, use a minimum of 500 gallons per acre of spray mix with a minimum of 0.5% horticultural spray oil\*.

✓ <sup>d</sup>: For best results, use 100-150 gallons per acre of spray mix applied to achieve outside coverage.

✓ <sup>e</sup>: For best results, use 100-250 gallons per acre of spray mix applied to achieve outside coverage.

✓ Not a dormant oil.

**Use Restrictions - Citrus**

✓ • Do not apply within 7 days of harvest.

✓ • Do not apply within 30 days of last treatment.

✓ • Do not apply more than three (3) applications or 40 fl. oz. per acre in any growing season.

✓ • Always apply in combination with horticultural spray oil\* as directed.

✓ • For resistance management purposes, do not use in citrus nurseries.

✓ Not a dormant oil.

✓ **Cucurbits (Melons, Cucumbers, Squashes): For control of spider mites and leafminers on cucurbits**

✓ Mix with water as indicated below and apply by ground sprayers as a foliar to ensure good upper and lower leaf coverage.

13/24

✓ Apply when adult leafminer flies or spider mites are first observed and repeat applications as necessary to maintain control within constraints of a sound resistance management program.

Pests	fl. oz./acre
Spider mites Leafminers	8.0-16.0

**Use Restrictions - Cucurbits**

- ✓ • Do not exceed 48 fl. oz. per acre in a growing season.
- ✓ • Do not apply within 7 days of harvest.
- ✓ • Do not apply at less than 7-day intervals.
- ✓ • Do not make more than two sequential applications.

✓ **Head Lettuce:** For control of *Liriomyza* leafminers on head lettuce

✓ Mix with water as indicated below and apply by ground equipment as a foliar spray to assure good upper and lower leaf coverage. Use 8 fl. oz./acre for low to moderate infestations and 16 fl. oz./acre for severe infestations. Apply when adult flies are first observed and repeat applications as necessary to maintain control.

Pests	fl. oz./acre
<i>Liriomyza</i> leafminers	8.0-16.0

**Use Restrictions - Head Lettuce**

- ✓ • Do not apply at less than 7-day intervals.
- ✓ • Do not exceed 48 fl. oz. per acre per growing season.
- ✓ • Do not apply within 7 days of harvest.
- ✓ • Do not apply in less than 20 gallons of water per acre.
- ✓ • Do not make more than two sequential applications.

✓ **Note:** Agri-Mek 0.15 EC may be used without any wetting agent. When necessary to improve the wetting of foliage and to smooth out spray deposits, a non-ionic surfactant is recommended.

14/24

**Hops: For control of two-spotted spider mites (Not registered for use in California).**

22

Apply Agri-Mek 0.15 EC when two-spotted spider mites reach treatment thresholds. Mix with water as indicated below and apply by ground equipment as a foliar spray to assure good upper and lower leaf coverage. Gallonage of spray may vary with the size of plants and density of foliage. In any case, thorough coverage is essential for good control of two-spotted mites. When using concentrate sprays, the amount of water is reduced, the the amount of Agri-Mek 0.15 EC per acre should remain the same as for dilute sprays. (If a second application is necessary for control, do not retreat within 21 days of the first application and only after an alternative miticide with a different mode of action has been used.)

*Redundant*

Pests	fl. oz./acre
✓ Two-spotted spider mites	16.0

**Use Restrictions - Hops**

- ✓ Do not use less than 16 fl. oz. per acre per application or exceed 32 fl. oz. per acre per growing season.
- ✓ Do not apply within 28 days of harvest.
- ✓ Do not apply in less than 40 gallons of water per acre.
- If a second application is necessary to maintain control, do not retreat within 21 days of the first application. ↑
- ✓ Do not permit livestock to graze treated hop yards.
- ✓ **Note: Agri-Mek 0.15 EC may be used without any wetting agent. When necessary to improve the wetting of foliage and to smooth out spray deposits, a non-ionic surfactant is recommended.**
- ✓ **Spray Drift Precautions - Hops: All ground application equipment must be properly maintained and calibrated using appropriate carriers.**
- ✓ Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, reservoirs, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds:
  - ✓ Do not apply by ground equipment within 25 feet of the above-mentioned aquatic areas. Avoid applications 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

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

- ✓ 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.
- ✓ Make ground applications when the wind velocity favors on-target product deposition (approximately 3 to 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.
- ✓ **Pears (Including oriental pear trees):** For control of two-spotted spider mite, McDaniel spider mite, European red mite, pear rust mite, yellow mite, and pear psylla.
- ✓ Agri-Mek 0.15 EC may be applied using conventional dilute or concentrate ground sprayers calibrated to deliver sufficient water for thorough coverage. Gallonage 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. Always apply in combination with horticultural spray oil (not a dormant oil) as directed. Do not graze treated orchards.
- ✓ 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 three 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 Agri-Mek 0.15 EC when weather conditions favor drift to aquatic areas. Do not apply within 110 feet upwind of aquatic areas or when wind speed is above 8 mph. Do not apply during a temperature inversion.
- ✓ Use Agri-Mek 0.15 EC with a minimum of 0.25% horticultural spray oil\* in

1/6/24

the dilute spray mixture and not less than 1.0 gallon of horticultural spray oil\* per acre in the final finished spray.

Pests	For Dilute Sprays <sup>a</sup> fl. oz./100 gal.	For Concentrate Sprays <sup>b</sup> fl. oz./A
✓ Two-spotted Spider Mite McDaniel mite European red mite Pear rust mite Yellow mite	✓ 2.5-5.0	✓ 10-20
✓ Pear psylla	✓ 2.5-5.0	✓ 10-20
✓ Horticultural spray oil*	✓ 0.25%	✓ Minimum of 1 gal./acre

✓ \*Not a dormant oil.

✓ a: The rate of Agri-Mek 0.15 EC per 100 gallons is based on a volume of 400 gallons per acre dilute spray.

✓ b: To 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./acre on small trees.

✓ **Use Restrictions - Pears**

✓ Do not exceed 20 fl. oz. Agri-Mek 0.15 EC per acre per application or 40 fl. oz. per acre in a growing season.

✓ Do not make more than two (2) applications per growing season.

✓ Do not apply in less than 40 gallons of water per acre.

✓ If a second application is necessary, do not retreat within 21 days of the first application.

✓ Do not apply within 28 days of harvest.

✓ **Potatoes:** For control of Colorado potato beetle, *Liriomyza* leafminers and spider mites on potatoes.

✓ Mix with water as indicated below and apply by ground equipment as a foliar spray to ensure thorough coverage on upper and lower leaf surfaces.

✓ For Colorado potato beetle, do not make more than two applications per crop. Make the first application after approximately 50% of the egg masses have hatched and larvae are present. If two applications are made, they should be restricted to a single Colorado potato beetle generation per crop and should not be made at less than 7-day intervals.

25 ft buffer strip  
10 ft cultivation border

17/24

✓ For *Liriomyza* leafminers, make the first application when adult flies are first observed. Repeat applications as necessary to maintain control, but not at intervals less than 7 days.

For spider mites, make the first application when mite damage first appears. Repeat application as necessary to maintain control, but not at intervals less than 7 days. The addition of a non-ionic surfactant or organosilicone-based surfactant, at the manufacturer's recommended rate is suggested for optimum spider mite control.

Pests	fl. oz./acre
Colorado Potato Beetles	8.0-16.0
Spider Mites	
<i>Liriomyza</i> Leafminers	

**Use Restrictions - Potatoes**

- Do not exceed 32 fl. oz. of Agri-Mek per acre per crop for spider mite or Colorado potato beetle control.
  - ✓ Do not exceed 48 fl. oz. of Agri-Mek per acre per crop for leafminer control.
  - ✓ Do not apply within 14 days of harvest.
  - ✓ Do not apply in volumes of less than 20 gallons per acre.
  - ✓ Do not graze or feed treated foliage to livestock.
  - ✓ Do not make more than two sequential applications.
- ✓ **Strawberries:** For control of two-spotted spider mites on strawberries.
- ✓ For control of twospotted spider mites on strawberries, use 16 fl. oz. Agri-Mek 0.15 EC per acre. Make two (2) applications seven to ten (7-10) days apart when mites first appear. Repeat this sequence of application if necessary to maintain control.

Pests	fl. oz./acre
Two-spotted spider mites	16.0

✓ Adjust spray volume and nozzle placement to assure maximum coverage of tops and undersides of leaves.

18/24

**Use Restrictions - Strawberries**

- ✓ Do not exceed 16 fl. oz. per acre per application or 64 fl. oz. per acre in a growing season.
- ✓ Do not apply within 3 days of harvest.
- ✓ For resistance management purposes, do not use in strawberry nurseries.
- ✓ Do not apply in less than 100 gallons of water per acre.
- ✓ Do not repeat treatment within 21 days of second application.
- ✓ **Tomatoes: For control of Colorado potato beetle, *Liriomyza* leafminers, spider mites, russet mites and tomato pinworm on tomatoes.**
- ✓ Mix with water as indicated below and apply thoroughly as a foliar spray to assure good upper and lower leaf coverage. For Colorado potato beetle, apply when newly emerged larvae are present. For russet and spider mites, apply when mite damage first appears. For leafminers, apply when when adult flies are first observed. For tomato pinworm, apply when larvae are first observed. In all cases, repeat applications as necessary to maintain control.

Pests	fl. oz./acre
✓ Colorado potato beetle <i>Liriomyza</i> leafminers Spider mites Tomato russet mite	✓ 8.0-16.0
✓ Tomato pinworm	✓ 16.0

**Use Restrictions - Tomatoes**

- ✓ Do not exceed 48 fl. oz. per acre per growing season.
- ✓ Do not apply at less than 7-day intervals.
- ✓ Do not apply within 7 days of harvest.
- ✓ Do not apply in less than 20 gallons of water per acre.
- ✓ Do not make more than two sequential applications.

19/24

---

### **Storage and Disposal**

---

- ✓ **Storage:** Store in a tightly closed container in a cool, dry place.
- ✓ **Prohibitions:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.
- ✓ **Pesticide Disposal:** Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies. 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) and dispose in an incinerator or landfill approved for pesticide containers.

---

### **PRECAUTIONARY STATEMENTS**

---

#### **Hazards to Humans and Domestic Animals**

#### **WARNING**

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Prolonged or frequently repeated exposure may cause allergic skin reactions in some individuals. Harmful if inhaled or absorbed through the skin. Do not breathe spray mist. Avoid contact with skin. May be fatal if swallowed. } Personal Protective Equipment (PPE): Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category 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 (such as barrier laminate or butyl rubber), chemical-resistant footwear plus socks, and protective eyewear. Wear chemical-resistant headgear for overhead exposure. Wear 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.

20/24

✓ **User Safety Recommendations**  
Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothes immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**Statement of Practical Treatment**

- ✓ **If inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
- ✓ **If swallowed:** Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by gently touching the back of the throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.
- ✓ **If on skin:** Remove contaminated clothing and wash affected areas with soap and water. Get medical attention if irritation persists.
- ✓ **If in eyes:** Flush eyes with plenty of water. Call a physician immediately.
- ✓ **Recommendations for Medical Treatment for Abmectin Acute Toxicity:** Early signs of intoxication include mydriasis (dilated pupils), ataxia (unsteadiness) and muscle tremors. Toxicity follows accidental ingestion of the concentrate can be minimized by inducing vomiting within one half hour of exposure.
- ✓ **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) as indicated by clinical signs, symptoms and measurements.**
- ✓ **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.**
- ✓ **For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.**

2/24

### **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.

### ✓ **Physical/Chemical Hazards**

Do not use or store near heat or open flame.

Agri-mek® trademark of Novartis  
U.S. Patent No. 4,310,519

©1997 Novartis

Novartis Crop Protection, Inc.  
Greensboro, North Carolina 27419

NCP 898A-L1A 1097

[QUARK\AGRIMEK\N-AGRIMEK] - ccg - 10/21/97

22/24

## Easy to Measure

1. **MEASURE**

Tilt the container forward as shown and fill measuring chamber.

2. **ADJUST**

Tilt the container back as shown, so that fluid will return to the main body of the container. Use the angular pour back scale as a guide to achieve desired dosage.

3. **CHECK**

Hold the container upright and check the fluid level for accuracy

4. **POUR**

Remove the cap and pour your measured dose from the container.

23/24

(Base Label)

**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.**

Agri-mek® 0.15EC

MITICIDE/INSECTICIDE

Active Ingredient:

Abamectin (CAS No. 65195-56-4 and No. 65195-55-3)	1.9%*
---	-------

Other Ingredients:	98.1%
--------------------	-------

Total:	100.0%
--------	--------

\*1 gallon contains 0.15 pound abamectin

EPA Reg. No. 100-898

EPA Est. 39578-TX-001

U. S. Pat. No. 4,310,519

Made in U.S.A.

**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.)

24/24

### **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.

---

#### **Storage and Disposal**

---

**Storage:** Store in a tightly closed container in a cool, dry place.

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

**Pesticide Disposal:** Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies. 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) and dispose in an incinerator or landfill approved for pesticide containers.

See booklet for additional precautionary statements and statement of practical treatment.

Agri-Mek® trademark of Novartis

Novartis Crop Protection, Inc.  
Greensboro, North Carolina 27419  
NCP 898A-L1A 1097

[QUARK/AGRIMEK/N-AGRIMEK] - ccg - 11/3/97