

	United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number Notification
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**Application for Pesticide - Section I**

1. Company/Product Number 100-898	2. EPA Product Manager Thomas Harris	3. Proposed Classification <input type="checkbox"/> None <input checked="" type="checkbox"/> Restricted
4. Company/Product (Name) Agri-Mek 0.15EC	PM# IRB 03	
5. Name and Address of Applicant (Include ZIP Code) Novartis Crop Protection, Inc. P. O. Box 18300 Greensboro, NC 27419  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____ Product Name _____	

NOTIFICATION  
MAR 31 1999

**Section - II**

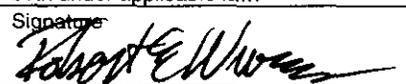
<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated February 13, 1997 _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**Explanation:** Label text added:  
 • Aerial application prohibited in New York State

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
*Certification must be submitted		If "Yes" per Unit Packaging wgt. container	No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container One Gallon		5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled					

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Robert E.M. Wurz	Title Senior Regulatory Manager	Telephone No. (Include Area Code) 336- 632-2391
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Senior Regulatory Manager	
4. Typed Name Robert E. M. Wurz	5. Date March 16, 1999	

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

(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) . . . . . 2.0%\*

Other Ingredients: . . . . . 98.0%

Total: . . . . . 100.0%

\*1 gal. contains 0.15 lb. abamectin

EPA Reg. No. 100-898

EPA Est. 39578-TX-1

**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.)

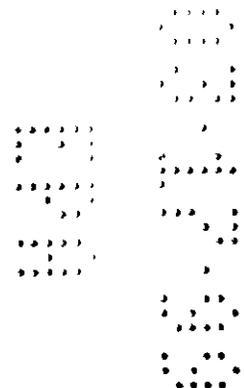
See additional precautionary statements and directions for use inside booklet.

NCP 898A-L1E 0399 (0.5 gal.)

NCP 898A-L2E 0399 (1 gal.)

0.5 GALLON  
U.S. Standard Measure

ONE GALLON  
U.S. Standard Measure



**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.

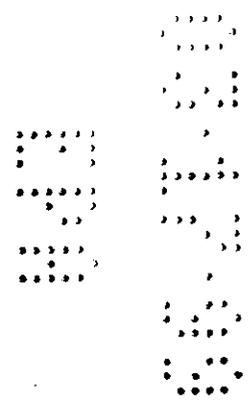
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**CONDITIONS OF SALE AND WARRANTY**

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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.



**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.

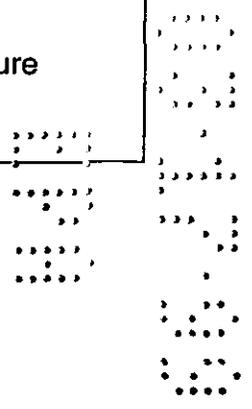
**AGRICULTURAL USE REQUIREMENTS**

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.**

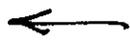
PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- 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



Do not apply this product through any type of irrigation system. Thorough coverage is essential for good mite and insect control on crops.

(1) Do not apply Agri-Mek 0.15EC by aerial application in New York State. (1



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.

**Spray Drift Precautions for Agri-Mek Use on Bell Peppers, Celery, Cucurbits, Head Lettuce, Potatoes, and Tomatoes**

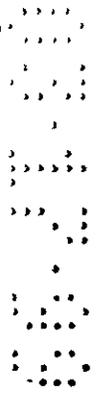
Do not apply by ground within 25 ft., or by air within 150 ft. of lakes, reservoirs, rivers, permanent streams, marshes, pot holes, or natural ponds; estuaries and commercial fish farm ponds.

All aerial and ground application equipment must be properly calibrated and maintained using appropriate carriers. For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or rotor diameter.

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. Spray should be released at the lowest height consistent with pest control and flight safety. Applications more than 10 ft. above the crop canopy should be avoided.

Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph. Risk of exposure to aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area. Do not cultivate within 10 ft. of the aquatic area so as to allow growth of a vegetative filter strip.

Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas. Avoid spraying during conditions of low humidity, and/or high temperature.



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Do not make aerial or ground applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

**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, strawberry 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.

Pests	For Dilute Sprays <sup>1</sup> fl. oz./100 gals.	For Concentrate Sprays <sup>2</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./A	Minimum of 1 gal./A

\*Not a dormant oil

<sup>1</sup>The rate of Agri-Mek 0.15 EC per 100 gals. is based on a volume of 400 gals./A dilute spray.

<sup>2</sup>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./A on small trees.



**Use Restrictions – Almonds and Walnuts**

- Do not exceed 20 fl. oz. of Agri-Mek 0.15 EC per acre per application or 40 fl. oz./A in a growing season.
- Do not make more than 2 applications per growing season.
- Do not apply in less than 40 gals. of water per acre.
- If a second application is necessary, do not retreat within 21 days.
- Do not apply within 21 days of harvest.
- Do not apply by aircraft.

**Apples: For control of white apple leathopper, tentiform leafminers and spider mites, including European red mite, two-spotted spider mite, and McDaniel spider mite**

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. 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.

Spray last three rows windward of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas.

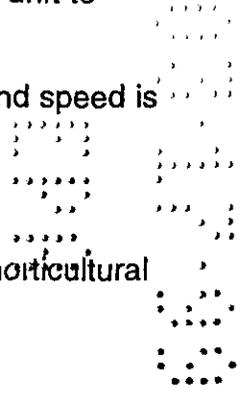
Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.

Do not apply Agri-Mek 0.15 EC when weather conditions favor drift to aquatic areas.

Do not apply within 110 ft. 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.

**White Apple Leafhopper (Not for use west of the Rocky Mountains):**

Application of Agri-Mek 0.15 EC is limited only to first generation white apple leafhopper. Apply soon after petalfall in combination with horticultural oil\*.

**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 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.

Pests	For Dilute Sprays <sup>1</sup> fl. oz./100 gals.	For Concentrate Sprays <sup>2</sup> fl. oz./A
Two-spotted spider mite McDaniel spider mite European red mite Tentiform leafminer White apple leafhopper	2.5-5.0	10-20
Horticultural Spray Oil*	0.25% or 1 gal./A	Minimum of 1 gal./A

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

\*Not a dormant oil

<sup>1</sup>The rate of Agri-Mek 0.15 EC per 100 gals. is based on a volume of 400 gals./A dilute spray.

<sup>2</sup>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./A 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./A in a growing season.

- Do not make more than 2 applications per growing season.
- Do not apply in less than 40 gals. of water per acre.
- If a second application is necessary, do not retreat within 21 days.
- Do not apply within 28 days of harvest.
- Do not apply by aircraft.
- 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

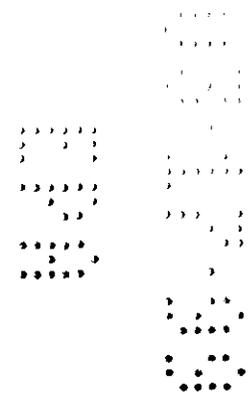
**Bell Peppers: For control of *Liriomyza* leafminers, *Thrips palmi*, spider mites, and broad mites on bell peppers.**

Mix with water as indicated below and apply thoroughly by ground or air as a foliar spray to assure good upper and lower leaf coverage. For broad mites and spider mites, apply when mites first appear. For leafminers, apply when adult flies are first observed. For *Thrips palmi*, apply when thrips are first observed. In all cases, repeat applications as necessary to maintain control.

Pests	fl. oz./A
<i>Liriomyza</i> leafminers Spider mites Broad Mites <i>Thrips palmi</i>	8.0-16.0

**Use Restrictions -- Bell Peppers**

- Do not exceed 48 fl. oz./A 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 gals. of water per acre.



- Do not make more than 2 sequential applications.

**Celery: For control of *Liriomyza* leafminers and spider mites (two-spotted and carmine) on celery**

Mix with water as indicated below and apply thoroughly by ground or air as a foliar spray to assure good upper and lower leaf coverage. Use 8 fl. oz./A for low to moderate infestations and 16 fl. oz./A 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./A
<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./A after transplanting.
- Do not apply within 7 days of harvest.
- Do not apply in less than 20 gals. of water per acre.
- For resistance management purposes, use no more than 2 applications on celery being grown for transplanting.
- Do not make more than 2 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 nonionic 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.

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.

Applications should be made with a minimum of 0.20% horticultural spray oil\* in the spray mixture or not less than 1.0 gal. of oil per acre (except where specified differently below).

**Mites:** Apply when mites first appear 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

Pests	For Dilute Sprays <sup>1</sup> fl. oz./100 gals.	For Concentrate Sprays <sup>2</sup> fl. oz./A
Citrus rust mite	0.5-2.0	5-20
Broad mite	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>3</sup>
Citrus leafminer	--	10-20 <sup>4</sup>
Citrus thrips	--	10-20 <sup>5</sup>
Horticultural Spray Oil*	Minimum 0.2%	Minimum of 1 gal./A

<sup>1</sup>The rate of Agri-Mek 0.15 EC per 100 gals. is based on a volume of

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1,000 gals./A dilute spray.

<sup>2</sup>For concentrate sprays, adjust the dosage to apply an amount per acre equal to that used in full cover dilute spray.

<sup>3</sup>For best results, use a minimum of 500 gals./A of spray mix with a minimum of 0.5% horticultural spray oil\*.

<sup>4</sup>For best results, use 100-150 gals./A of spray mix applied to achieve outside coverage.

<sup>5</sup>For best results, use 100-250 gals./A 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 3 applications or 40 fl. oz./A in any growing season.
- Always apply in combination with horticultural spray oil\* as directed.
- For resistance management purposes, do not use in citrus nurseries.
- Do not apply by aircraft.

\*Not a dormant oil

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

Mix with water as indicated below and apply thoroughly by ground or air as a foliar spray to ensure good upper and lower leaf coverage.

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./A
Spider mites, Leafminers	8.0-16.0



**Use Restrictions – Cucurbits**

- Do not exceed 48 fl. oz./A in a growing season.
- Do not apply within 7 days of harvest.
- Do not apply at less than 7-day intervals.
- Do not apply in less than 20 gals. of water per acre.
- Do not make more than 2 sequential applications.

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

Mix with water as indicated below and apply thoroughly by ground or air equipment as a foliar spray to assure good upper and lower leaf coverage. 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 applications as necessary to maintain control.

Pests	fl. oz./A
<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./A per growing season.
- Do not apply within 7 days of harvest.
- Do not apply in less than 20 gals. of water per acre.
- Do not make more than 2 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 nonionic surfactant is recommended.**

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

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, but 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.

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

**Use Restrictions – Hops**

- Do not use less than 16 fl. oz./A per application or exceed 32 fl. oz./A per growing season.
- Do not apply within 28 days of harvest.
- Do not apply in less than 40 gals. 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 apply by aircraft.
- 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 nonionic 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 ft. 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**

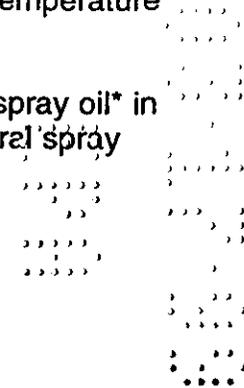
Agri-Mek 0.15 EC may be applied using conventional dilute or concentrate ground sprayers calibrated to deliver sufficient water for thorough coverage. Gallonage of spray will vary with size and number of trees per acre and density of foliage. In any case, thorough coverage is essential for good spider 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 ft. 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 the dilute spray mixture and not less than 1.0 gal. of horticultural spray oil\* per acre in the final finished spray.



Pests	For Dilute Sprays <sup>1</sup> fl. oz./100 gals.	For Concentrate Sprays <sup>2</sup> fl. oz./A
Two-spotted spider mite McDaniel spider 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./A

\*Not a dormant oil

<sup>1</sup>The rate of Agri-Mek 0.15 EC per 100 gals. is based on a volume of 400 gals./A dilute spray.

<sup>2</sup>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./A on small trees.

**Use Restrictions – Pears**

- Do not exceed 20 fl. oz. of Agri-Mek 0.15 EC per acre per application or 40 fl. oz./A in a growing season.
- Do not make more than 2 applications per growing season.
- Do not apply in less than 40 gals. 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.
- Do not apply by aircraft.

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

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

For Colorado potato beetle, do not make more than 2 applications per

crop. Make the first application after approximately 50% of the egg masses have hatched and larvae are present. If 2 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.

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 mites first appear. Repeat application as necessary to maintain control, but not at intervals less than 7 days.

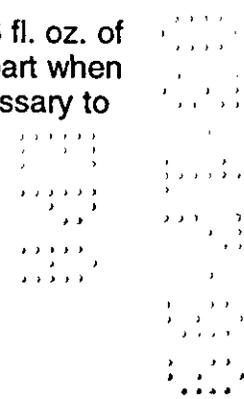
Pests	fl. oz./A
Colorado potato beetles	8.0-16.0
Spider mites	
<i>Liriomyza</i> leafminers	

**Use Restrictions – Potatoes**

- Do not exceed 32 fl. oz. of Agri-Mek 0.15 EC per acre per crop for spider mite or Colorado potato beetle control.
- Do not exceed 48 fl. oz. of Agri-Mek 0.15 EC per acre per crop for leafminer control.
- Do not apply within 14 days of harvest.
- Do not apply in less than 20 gals. of water per acre.
- Do not graze or feed treated foliage to livestock.
- Do not make more than 2 sequential applications.

**Strawberries: For control of two-spotted spider mites on strawberries**

For control of two-spotted spider mites on strawberries, use 16 fl. oz. of Agri-Mek 0.15 EC per acre. Make 2 applications 7-10 days apart when mites first appear. Repeat this sequence of application if necessary to maintain control.



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

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

#### Use Restrictions – Strawberries

- Do not exceed 16 fl. oz./A per application or 64 fl. oz./A 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 gals. of water per acre.
- Do not repeat treatment within 21 days of second application.
- Do not apply by aircraft.

**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 by ground or air 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 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./A
Colorado potato beetles <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./A 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 gals. of water per acre.
- Do not make more than 2 sequential applications.
- For resistance management purposes, do not use on tomatoes being grown for transplanting.

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**STORAGE AND DISPOSAL**

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**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. 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 of in an incinerator or landfill approved for pesticide containers.

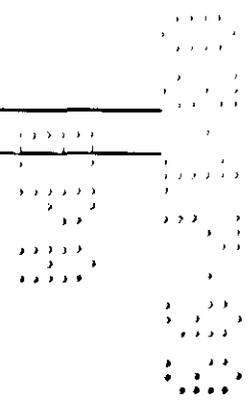
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**PRECAUTIONARY STATEMENTS**

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**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**

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
- 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.

<p><b>User Safety Recommendations</b></p> <p><b>Users should:</b></p> <ul style="list-style-type: none"> <li>• Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet</li> <li>• Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> </ul>
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**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 1 or 2 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 Abamectin Acute Toxicity:** Early signs of intoxication include mydriasis (dilated pupils), ataxia (unsteadiness), and muscle tremors. Toxicity follows accidental ingestion of the concentrate and 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.

**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 or Chemical Hazards**

Do not use or store near heat or open flame.

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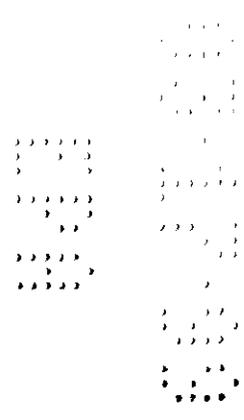
Agri-Mek® trademark of Novartis  
U.S. Patent No. 4,310,519

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Novartis Crop Protection, Inc.  
Greensboro, North Carolina 27419

NCP 898A-L1E 0399 (0.5 gal.)  
NCP 898A-L2E 0399 (1 gal.)

[QUARKAGRIMEK/N-AGRIMEK-RW] - ccg - 3/12/99



(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) . . . . .	2.0%*
Other Ingredients: . . . . .	98.0%
Total:	100.0%

\*1 gal. contains 0.15 lb. abamectin

See directions for use in attached 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. 100-898

EPA Est. 39578-TX-1

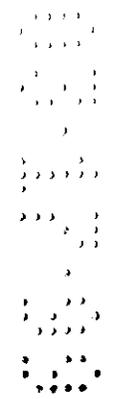
**KEEP OUT OF REACH OF CHILDREN.**

**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.)

0.5 GALLON  
U.S. Standard Measure

ONE GALLON  
U.S. Standard Measure



**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

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.

**Refer to Statement of Practical Treatment section in attached booklet for additional precautionary statements.**

**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 or Chemical Hazards**

Do not use or store near heat or open flame.

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

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Novartis Crop Protection, Inc.  
Greensboro, North Carolina 27419  
NCP 898A-L1E 0399 (0.5 gal.)  
NCP 898A-L2E 0399 (1 gal.)

[QUARK/AGRIMEK/N-AGRIMEK-RW] - ccg - 3/12/99

