

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

231,550,296.7  
1845

**MARCH 28, 1996**

*Louis S. Grosso, Ph. D.  
Director, Regulatory Affairs  
Agricultural Research & Development  
MERCK & Company, Inc.  
Post Office Box 450  
Three Bridges, New Jersey 08887-0450*

*Dear Dr. Grosso:*

*Subject: Amended Labeling-Add Use on Hops  
AGRI-MEK 0.15 Miticide/Insecticide  
EPA Registration Number 618-98  
Your Submission Dated March 27, 1996*

*The amendment to the product registration referred to above is acceptable since you have agreed to the conditions stated in our letter of March 19, 1996.*

*We note your comments regarding the low humidity/high temperature precaution and the fact that these type climatic conditions are common in the hops growing areas. As an alternative we recommend the following interim language:*

***"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."***

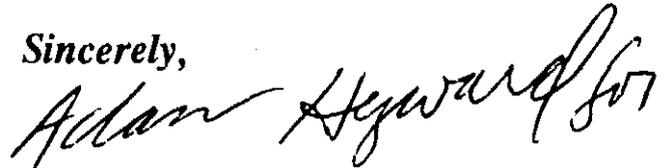
CONCURRENCES

SYMBOL								
SURNAME								
DATE								

*Submit three copies of your final printed labeling before you release the product for shipment. A stamped copy is enclosed for your records.*

*If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).*

*Sincerely,*

A handwritten signature in cursive script, appearing to read "Adam Hayward 6/07", is written over the typed name.

**George T. LaRocca  
Product Manager (13)  
Insecticide-Rodenticide Branch  
Registration Division (7505C)**

**Enclosure:**

AGRI-MEK 0.15 EC  
Proposed Labeling for Hops (II)

3/25/96  
Page 1 of 5

- FRONT SIDE -

**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® 0.15 EC**  
**MITICIDE / INSECTICIDE**

For Control of Twospotted Spider Mites on Hops

**ACTIVE INGREDIENT**

Abamectin: [A mixture of avermectins containing  $\geq$  80% avermectin B<sub>1a</sub> (5-O-demethyl avermectin A<sub>1a</sub>) and  $\leq$  20% avermectin B<sub>1b</sub> (5-O-demethyl-25-de (1-methylpropyl) -25- (1- methylethyl) avermectin A<sub>1a</sub>)].....1.9%\*

**INERT INGREDIENTS** .....98.1%

\* 1 gallon contains 0.15 pound 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 Back Label for Additional Precautionary Statements and Statement of Practical Treatment

EPA EST. NO. 39578-TX-1  
EPA REG. NO. 618-98

U.S. Pat. 4,310,519

Made in U.S.A.  
ACCEPTED  
with COMMENTS  
in EPA Letter Dated

MERCK AgVet Division [logo]  
Merck & Co., Inc.  
Rahway, New Jersey 07065-0912, U.S.A.

**28 MAR 1996**  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

AGRI-MEK is a registered trademark of Merck & Co., Inc.  
Whitehouse Station, New Jersey, U.S.A.

618-98

1 GALLON

Product 06432A

FOR LOT NUMBER SEE BOTTOM OF BOTTLE

-BACK SIDE -

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 breath spray mist. Avoid contact with the 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, 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 .

**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 Abamectin Acute Toxicity:**

Early signs of intoxication include mydriasis (dilated pupils), ataxia (unsteadiness) and muscle tremors. Toxicity following 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 24 hour emergency information, call the Merck National Service Center at 1-800-672 6372.

**BEST AVAILABLE COPY**

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## 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 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.

## DIRECTIONS FOR USE

It is a violation of Federal (U.S.A.) 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 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, and chemical-resistant headgear for overhead exposure.

Do not apply this product through any type of irrigation system.  
Do not apply by aircraft.  
Thorough coverage is essential for good mite 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® be used in a sound resistance management program which includes rotation with other products with different modes of action.

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**HOPS: For Control of Twospotted Spider Mites**

Apply AGRI-MEK® when twospotted spider mites reach treatment threshold. 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 twospotted spider 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.

<u>Pests</u>	<u>fl oz/acre</u>
Twospotted Spider Mites	16

**USE RESTRICTIONS - HOPS**

- Do not 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:**

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.

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AGRI-MEK 0.15 EC  
Proposed Labeling for Hops (II)

3/25/96  
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### 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 (U.S.A.) 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.

### CONDITIONS OF SALE AND WARRANTY

**Notice of 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 MERCK or the Seller. Treatment may not be effective if tolerant strains of mites develop. Use of alternate treatments should be considered if treatment with AGRI-MEK proves ineffective. All such risks shall be assumed by the buyer.

MERCK 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. Buyer assumes all risks of use or handling which are at variance in any way with the directions hereon. Buyer's exclusive remedy shall be refund or replacement of any product found by MERCK to be defective. **MERCK makes no other express or implied warranty. In no case shall MERCK or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product, regardless of the legal theory asserted, including negligence and/or strict liability.** MERCK and the Seller offer this product and the buyer and user accept it, subject to the foregoing **Notice of Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of MERCK.

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