



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 25, 2016

Nancy Huebl  
Wellmark International  
1501 Woodfield Rd, Suite 200W  
Schaumburg, IL 60173

Subject: PRIA Label Amendment – Add Ticks & Scorpions + Other Label Revisions  
Product Name: MAVRIK AQUAFLOW INSECTICIDE/MITICIDE  
EPA Registration Number: 2724-478  
Application Date: February 11, 2016  
Decision Number: 513922

Dear Ms. Huebl:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Maggie Rudick by phone at 703-347-0257, or via email at [rudick.maggie@epa.gov](mailto:rudick.maggie@epa.gov).

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EPA Reg. No. 2724-478  
Decision No. 513922

Sincerely,

A handwritten signature in black ink, appearing to read 'Kable Bo Davis', enclosed within a hand-drawn oval.

Kable Bo Davis, Product Manager 3  
Invertebrate and Vertebrate Branch 1  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

**MASTER LABEL**  
**Sublabel 1: WPS label**

**MAVRIK AQUAFLOW® INSECTICIDE/MITICIDE**

For commercial use only on indoor plants in greenhouses, interior plantscapes, and flower and foliage cuttings and on outdoor plants in ornamental plantings, plantscapes (including trees, shrubs), and containerized nursery stock. Also for Perimeter Treatments around buildings and outside surfaces

**ACTIVE INGREDIENT:**

Tau-fluvalinate (CAS #102851-06-9)..... 22.3%

**OTHER INGREDIENTS:** ..... 77.7%

TOTAL 100.0%

MAVRIK AQUAFLOW is a flowable formulation containing 2 pounds tau-fluvalinate per gallon (240 g/L).

EPA Registration No. 2724-478

EPA Est. No. 2724-TX-1

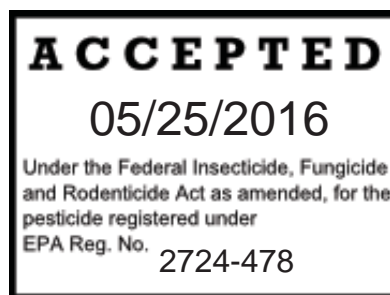
**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See additional Precautionary Statements and First Aid

**SHAKE WELL BEFORE USING**

Net Contents



**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**CAUTION**

Harmful if swallowed, absorbed through the skin, or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist or vapor. Wear long-sleeved shirt, long pants, shoes, socks, and chemical resistant gloves (such as or made out of any waterproof material, selection category A).

<b>FIRST AID</b>	
If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.</li> <li>• Call a poison control center for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-248-7763 for emergency medical treatment information.	

**Personal Protective Equipment (PPE):**

Some materials that are chemical-resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

All mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes and socks
- Chemical-resistant gloves, and
- A NIOSH approved respirator with any R, P, or HE filter.

See Engineering Controls for additional requirements.

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

**Engineering Controls Statements:**

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for “applicators and other handlers” and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

**User Safety Recommendations:**

User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

User should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish and aquatic organisms. To protect the environment, do not allow pesticide to enter or runoff into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems. Use with care when applying in areas adjacent to any body of water. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not apply when weather conditions favor drift from the target area.

This product is toxic to honey bees if bees are exposed to direct application. However, dried residues of this product are non-toxic to honey bees. Treat during non-foraging periods to minimize adverse effects.

**PHYSICAL/CHEMICAL HAZARDS**

Do not use or store near heat or open flame.

## **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
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

### **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected people, children, and pets out of treated area until spray has dried. Some sensitive pets eating or coming in contact with freshly treated plants may demonstrate vomiting and respiratory distress.

Do not apply this product through any type of irrigation system. Not for broadcast use in nurseries. Not for use on sod farms, on grass grown for seed, or on golf course turf. Do not apply this product by aerial application.

Do not apply to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack and crevice treatment. During application, do not allow pesticide to enter or runoff into storm drains, drainage ditches, gutters or surface waters.

All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses, if allowed elsewhere on this label:

1. Applications to soil or vegetation, as listed on this label, around structures;
2. Applications to lawns, turf, and other vegetation, as listed on this label;
3. Applications to the side of a building, up to a maximum height of 3 feet above grade;
4. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width;
6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.

### **APPLICATION DIRECTIONS**

MAVRIK AQUAFLOW controls insects and controls or suppresses mite pests when used at labeled rates. MAVRIK AQUAFLOW works primarily through contact action, good spray coverage is necessary. Treat when pests are immature or at a susceptible stage and populations are manageable, before plant damage occurs. Repeat applications as needed, according to the specific use directions given in this label. Residues of MAVRIK AQUAFLOW can continue to control certain insect pests for a week or longer. Growth dilution, climatic variables, and pest habits determine re-treatment needs.

Dilute MAVRIK AQUAFLOW in sufficient water to give thorough spray coverage [based on previous experience]. For best results under varying conditions, a range of use rates is recommended for most uses. Select the higher rates when pest pressure or damage potential is severe. The lower rates often give acceptable economic results. [ Buffer spray water to pH 5-7, if necessary.]

For severe mite infestations, use the highest rate of MAVRIK AQUAFLOW and use an acaricide in an alternate treatment program. The use of a spreader-sticker, insecticidal soaps, or piperonyl butoxide may improve control of mites and some insects, such as, whiteflies, aphids, thrips, and mealybugs. MAVRIK AQUAFLOW may be used as a tank-mix. The more stringent product label will apply when tank-mixing two products. When MAVRIK AQUAFLOW is tank-mixed with wettable powders, add powders to the tank first using good agitation. Check for physical and biological compatibility prior to use.

Dried residues of MAVRIK AQUAFLOW are non-toxic and non-repellent to honey bees. Treat during non-foraging periods to minimize adverse effects.

Consult your local extension office, pest management consultant, or a Wellmark International specialist for guidance in selecting a rate and timing schedule or tank mix combination that has demonstrated good performance under specific conditions. Follow all use directions and precautions for products used in tank mix.

CROP/SITE	PEST	AMOUNT MAVRIK AQUAFLOW IN WATER TO MAKE		SPECIFIC DIRECTIONS
		100 GALLONS	5 GALLONS	
<p><b>For Outdoor Applications:</b> Use lower rates and greater re-treatment intervals for light to moderate insect pressures. Use higher rates and shorter re-treatment intervals for green peach aphids, unexposed insects and heavy pressures of other insects. Directly spray at the rate of 0.1 fl oz/gallon to kill lone star ticks and deer ticks and bark scorpions. Mite suppression can be obtained using the lower rate; for more residual control of mites, use up to 10 fl oz/100 gal water. For maximum mite control, tank mix with an acaricide.</p>				
Perimeter Treatments to include Outside Surfaces	<p>Aphids, Thrips, Mites, Clover Mites, Two-Spotted Spider Mites, Whiteflies, Mealybugs, Leaf- Feeding Caterpillars (i.e., Tent, Orlando, Gypsy Moth, Bagworm, Canker Worm, etc.), Ticks, Brown Dog Ticks, American Dog Ticks, Lone Star Ticks, Deer Ticks, Fleas, Ants, Fire Ants, Crickets, Armyworms, Cutworms, Springtails (Collembola), Adelgids, Mosquitoes, Chiggers*, Earwigs, Lygus Plant Bugs Beetles (Flea, Cucumber, Elm Leaf) Leafhoppers Weevils* (Strawberry Root, Obscure Root, Blackvine Root) Psyllids, Millipedes* American Cockroaches Smoky Brown Cockroaches, Oriental Cockroaches, Boxelder Bugs, Spiders, Silverfish, Firebrats, Chinch Bugs, Asian Lady Beetles*, Sowbugs, Glassy-Wing Sharpshooters, Stink Bugs, Bark Scorpions</p> <p>* Except in California</p>	4-10 fl oz	0.2-0.5 fl oz (1.3-3 teaspoons)	<p>Apply MAVRIK AQUAFLOW to perimeters and outside surfaces of residential, non-commercial, and commercial buildings such as industrial offices, institutional buildings, private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, storage sheds, patios</p> <p>Apply MAVRIK AQUAFLOW using a low pressure, coarse fan spray, applied in even bands to surfaces and perimeters where pests are a problem. Apply the spray mixture at a volume equivalent to 5 gallons per 1,000 square feet. Depending on the severity of pest infestations, a re-treatment may be necessary at 7-14 days. Apply no more than 4 times per month or no more than 20 times per year. Typical re-treatment interval is 28 days.</p> <p>Perimeter applications are made to a band of soil and/or vegetation 6 to 10 feet wide around and adjacent to the structure. Higher volumes of water may be needed if mulch or leaf litter is present or foliage is dense. These sites may include refuse dumps, vegetation areas, soil, trunks of woody ornamentals, and fence lines adjacent to or around the structure, and other areas near a structure where pests congregate or have been seen.</p> <p>Surface applications can be made to all outside surfaces of structures listed above and includes porches, window and door frames, eaves, and foundations. Apply as a crack and crevice treatment using a pinstream nozzle to pest harborage sites. Refrain from applying to the point of runoff.</p>



CROP/SITE	PEST	AMOUNT MAVRIK AQUAFLOW IN WATER TO MAKE		SPECIFIC DIRECTIONS
		100 GALLONS	5 GALLONS	
Containerized Nursery Stock- Outdoors	Aphids, Thrips, Mites, Clover Mites, Whiteflies, Leaf-Feeding Caterpillars (i.e., Tent, Orlando, Gypsy Moth, Bagworm, Canker Worm, etc.) Lygus Plant Bugs Beetles (Flea, Cucumber, Elm Leaf) Leafhoppers, Earwigs, Ants, Crickets, Armyworms, Cutworms, Sowbugs, Chiggers*, Millipedes*, Springtails (Collembola) Adelgids, Mosquitoes, Glassy -Wing Sharpshooters, Stink Bugs, Bark Scorpions  * Except in California	4-10 fl oz	0.2-0.5 fl oz (1.3-3 teaspoons)	For application to small, immature ornamental plants in containers up to 5 gallons in size: Mix 4–10 fl oz of MAVRIK AQUAFLOW in 100 gallons of water. Apply an equivalent of 100 gallons of spray solution per 20,000 square feet of growing area using a low pressure, coarse fan spray application. Spray interval is typically 14–28 days but not more than 4 applications per month. Do not exceed 16 applications per year. Use sufficient water to thoroughly cover the surfaces to be treated. Use lower rates for light to moderate insect pressure. Apply spray to foliage, around base of plant, and to the main trunk or stems.
Woody and Herbaceous Ornamentals- Outdoors	Aphids, Thrips, Mites, Clover Mites, Whiteflies, Leaf-Feeding Caterpillars (i.e., Tent, Orlando, Gypsy Moth, Bagworm, Canker Worm, etc.) Lygus Plant Bugs Beetles (Flea, Cucumber, Elm Leaf) Leafhoppers, Earwigs, Ants, Crickets, Armyworms, Cutworms, Sowbugs, Chiggers*, Millipedes*, Springtails (Collembola) Adelgids, Mosquitoes, Glassy -Wing Sharpshooters, Stink Bugs, Bark Scorpions, Strawberry Root Weevils*, Obscure Root Weevils*, Blackvine Root Weevils* * Except in California	4-10 fl oz	0. 2-0.5 fl oz (1.3-3 teaspoons)	Make applications to large, mature ornamental specimen plants or plants in containers larger than 5 gallons in size. Mix 4–10 fl oz of MAVRIK AQUAFLOW in 100 gallons of water (equivalent to 0.2– 0.5 fl oz or 1.3–3 teaspoons per 5 gallons of water). Apply 100 gallons of spray solution per equivalent of 20,000 square feet of growing area using a low pressure, coarse fan spray applications. Spray interval is typically 14–28 days but not more than 4 applications per month. Do not exceed 24 applications per year. Use sufficient water to thoroughly cover the surfaces to be treated. Use lower rates for light to moderate insect pressure. Spray on ground around base of tree or shrub and/or up main trunk or stem and foliage.

CROP/SITE	PEST	AMOUNT MAVRIK AQUAFLOW IN WATER TO MAKE		SPECIFIC DIRECTIONS
		100 GALLONS	5 GALLONS	
Eugenia and Pepper Tree	Psyllids	5-10 fl oz	0.25-0.5 fl oz (1.5-3.0 teaspoons)	Apply 5-10 fl oz of MAVRIK AQUAFLOW per 100 gallons of water to protect new foliage, depending on pest pressure. Use the higher rate of MAVRIK AQUAFLOW for heavier infestations of psyllids. Apply 2 applications at 14 day intervals under heavy reinfestation pressure or if new foliage is present. If pruning is needed, prune the entire hedge, then delay application until adults and new shoots are present.
Ant Mound Treatment	Fire Ants and other mounding ant pests	10 fl oz	0.5 fl oz (3 teaspoons)	<u>Individual ant mound treatment:</u> Apply as drench using 1 gallon of spray solution per mound to control mounding ant colonies, including the fire ant. Thoroughly mix 2/3 teaspoons (0.1 fl oz.) of MAVRIK AQUAFLOW with 1 gallon of water. Drench the mound using 1 gallon of dilution per mound. Apply the dilution starting on the perimeter of the mound and ending at the center of the mound until the entire mound is wet but not to the point of runoff.
<b>Indoor applications:</b>				
Greenhouse Applications	Aphids, Thrips, Mites, Whiteflies, Earwigs, Beetles (Flea, Cucumber, Elm Leaf), Leafhoppers, Springtails (Collembola), Adelgids, Leaf-Feeding Caterpillars (i.e. Tent, Orlando, Gypsy Moth, Bagworm, Canker Worm, etc.), Lygus Plant Bugs, Stink Bugs, Bark Scorpions	4–10 fl oz	0.2-0.5 fl oz (1.3-3 teaspoons)	<u>Broadcast, fogger, or bench applications.</u> Mix 4–10 fl oz of MAVRIK AQUAFLOW in 100 gallons of water (equivalent to 0.2–0.5 fl oz per 5 gallons of water). Use a higher rate of MAVRIK AQUAFLOW for more residual activity. Apply 100 gallons of spray solution which will typically cover 20,000 square feet of greenhouse space using a low pressure, coarse fan spray for bench or broadcast applications. Spray interval is typically 14–28 days but not more than 4 applications per month or 16 applications per crop. When using ElectroStatic Spraying Systems (ESS®), PulsFog®, cold foggers, or other ULV delivery systems, apply the labeled amount of MAVRIK AQUAFLOW over the square footage with the equipment manufacture's requirement of water. Follow manufacture's calibration procedures.

CROP/SITE	PEST	AMOUNT MAVRIK AQUAFLOW IN WATER TO MAKE		SPECIFIC DIRECTIONS
		100 GALLONS	5 GALLONS	
Indoor Ornamentals (Interior Plantscapes)	Aphids, Whiteflies, Thrips, Mites, Earwigs, Beetles (Flea, Cucumber, Elm Leaf), Leafhoppers, Springtails (Collembola), Adelgids, Leaf-Feeding Caterpillars (i.e. Tent, Orlando, Gypsy Moth, Bagworm, Canker Worm, etc.) Lygus Plant Bugs Stink Bugs, Bark Scorpions	4-10 fl oz	0.2-0.5 fl oz (1.3-3 teaspoons)	Mix 0.1–0.25 fl oz of MAVRIK AQUAFLOW in 2.5 gallons of water (equivalent to 0.2–0.5 fl oz per 5 gallons of water). Apply 5 gallons of spray solution per 1,000 square feet using a low pressure, coarse fan spray for plantscape applications.
Flower and Foliage Cuttings (for Dipping)	Mealybugs, Aphids, Two-Spotted Spider Mites	5 fl oz	0.25 fl oz (1.5 teaspoons)	Immerse basket of cuttings into a diluted solution of MAVRIK AQUAFLOW until thoroughly wet (usually 1 minute or less).

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. **Pesticide Storage:** Store in a cool, dry place. Pesticides must be stored in a secured area away from other products, food, or feed. Keep pesticide storage areas clean. Always store pesticides in the original container. If a leaky container must be contained within another, mark the outer container to identify the contents. In case of a spill or leak, soak up with soil or other absorbent material. Do not use caustic agents. **Pesticide Disposal:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry). **Container Handling:** Non-refillable container. Do not reuse or refill this container. Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture or dispose of in a sanitary landfill, or if allowed by state and local authorities by burning. If burned, stay out of smoke.

To the extent consistent with applicable law, Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. To the extent consistent with applicable law, Buyer assumes all risk of use and handling of this material when such use and handling are contrary to label instructions.

ESS® is a registered trademark of ElectroStatic Spraying Systems.  
PulsFog® is a registered trademark of Dramm International.  
MAVRIK AQUAFLOW® is a registered trademark of Wellmark International.

For more information or in case of emergency, call [phone number]  
[www.centralgrower.com](http://www.centralgrower.com)

Wellmark International  
1501 East Woodfield Road 200W  
Schaumburg, IL 60173  
Made in USA

[ ] optional text

## Sublabel 2: Non-WPS label (Out of WPS scope)

**ZOËCON®** (name of PCO marketing group placed on label, not a part of alternate brand name)

OUTDOOR FLEA/ANT\* CONTROL

Alternate brand names: **YARDEX® INSECTICIDE**  
MAVRIK® Perimeter

For commercial use only on outdoor plants in ornamental plantings, landscapes (including trees and shrubs), Also for (Perimeter Treatment) around buildings and outside surfaces

Small, easy to use 8 oz. Bottle

Contains tau-fluvalinate

Ideal for applications without the worry of watering-in

Perimeter treatment against a wide range of insects including mosquitoes, fire ants, and stink bugs

### ACTIVE INGREDIENT:

Tau-fluvalinate (CAS #102851-06-9) ..... 22.3%

**OTHER INGREDIENTS:** ..... 77.7%

TOTAL ..... 100.0%

YARDEX is a flowable formulation containing 2 pounds tau-fluvalinate per gallon (240 g/L)

EPA Registration No. 2724-478

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

READ COMPLETE DIRECTIONS AND PRECAUTIONS INSIDE

**SHAKE WELL BEFORE USING**

Not use on plants or trees being grown for sale or other commercial use, for commercial seed production, for the production of timber or wood products, or for research purposes. For use only on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks and grounds.

\* Except in California

Net Contents

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed, absorbed through the skin, or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist or vapor. Wear long-sleeved shirt, long pants, shoes, socks, and chemical resistant gloves (such as or made out of any waterproof material, selection category A).

<b>FIRST AID</b>	
If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.</li> <li>• Call a poison control center for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-248-7763 for emergency medical treatment information.	

**Personal Protective Equipment (PPE):**

Some materials that are chemical-resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

All mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes and socks
- Chemical-resistant gloves, and
- A NIOSH approved respirator with any R, P, or HE filter.

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

**User Safety Recommendations:**

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

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish and aquatic organisms. To protect the environment, do not allow pesticide to enter or runoff into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems. Use with care when applying in areas adjacent to any body of water. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not apply when weather conditions favor drift from the target area.

This product is toxic to honey bees if bees are exposed to direct application. However, dried residues of this product are non-toxic to honey bees. Treat during non-foraging periods to minimize adverse effects.

**PHYSICAL/CHEMICAL HAZARDS**

Do not use or store near heat or open flame.

**DIRECTIONS FOR USE**

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

**RESTRICTIONS**

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.

Keep unprotected people, children and pets out of treated area until spray has dried. Some sensitive pets eating or coming in contact with freshly treated plants may demonstrate vomiting and respiratory distress.

Do not apply this product by aerial application or through any type of irrigation system.

Do not apply to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack and crevice treatment. During application, do not allow pesticide to enter or runoff into storm drains, drainage ditches, gutters or surface waters.

All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses, if allowed elsewhere on this label:

1. Applications to soil or vegetation, as listed on this label, around structures;
2. Applications to lawns, turf, and other vegetation, as listed on this label;
3. Applications to the side of a building, up to a maximum height of 3 feet above grade;
4. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width;
6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.

### **APPLICATION DIRECTIONS**

YARDEX controls insects and controls or suppresses mite pests when used at labeled rates. YARDEX works primarily through contact action, good spray coverage is necessary. Treat when pests are immature or at a susceptible stage and populations are manageable, before damage occurs. Repeat applications as needed, according to the specific use directions given in this label. Residues of YARDEX can continue to control certain insect pests for a week or longer. Growth dilution, climatic variables, and pest habits determine retreatment needs.

Dilute YARDEX in sufficient water to give thorough spray coverage [based on previous experience]. For best results under varying conditions, a range of use rates is recommended for most uses. Select the higher rates when pest pressure or damage potential is severe. The lower rates often give acceptable economic results. [Buffer spray water to pH 5-7, if necessary.]

For severe mite infestations, use the highest rate of YARDEX and use an acaricide in an alternate treatment program. [The use of a spreader-sticker, insecticidal soaps, or piperonyl butoxide may improve control of mites and some insects, such as, whiteflies, aphids, thrips, and mealybugs.] When YARDEX is mixed with wettable powders, add powders to the tank first using good agitation. Check for physical and biological compatibility prior to use.

Dried residues of YARDEX are non-toxic and non-repellent to honey bees. Treat during non-foraging periods to minimize adverse effects.

Consult your local extension office, pest management consultant, or a Wellmark International specialist for guidance in selecting a rate and timing schedule or mixing combination that has demonstrated good performance under specific conditions.

CROP/SITE	PEST	AMOUNT YARDEX IN WATER TO MAKE		SPECIFIC DIRECTIONS
		5 GALLONS	1 GALLON	
<p><b>For Outdoor Applications:</b> Use lower rates and greater re-treatment intervals for light to moderate insect pressures. Use higher rates and shorter re-treatment intervals for green peach aphids, unexposed insects and heavy pressures of other insects. Directly spray at the rate of 0.1 fl oz/gallon to kill lone star ticks and deer ticks and bark scorpions. Mite suppression can be obtained using the lower rate; for more residual control of mites, use up to 0.5 fl oz/5 gallons water [0.1 fl oz/1 gallon of water].</p>				
Perimeter Treatments to include Outside Surfaces	<p>Aphids, Thrips, Mites, Clover Mites, Two-Spotted Spider Mites, Whiteflies, Mealybugs, Leaf- Feeding Caterpillars (i.e., Tent, Orlando, Gypsy Moth, Bagworm, Canker Worm, etc.), Ticks, Brown Dog Ticks, American Dog Ticks, Lone Star Ticks, Deer Ticks, Fleas, Ants, Fire Ants, Crickets, Armyworms, Cutworms, Springtails (Collembola), Adelgids, Mosquitoes, Chiggers*, Earwigs, Lygus Plant Bugs Beetles (Flea, Cucumber, Elm Leaf) Leafhoppers Weevils* (Strawberry Root, Obscure Root, Blackvine Root) Psyllids, Millipedes* American Cockroaches Smoky Brown Cockroaches, Oriental Cockroaches, Boxelder Bugs, Spiders, Silverfish, Firebrats, Chinch Bugs, Asian Lady Beetles*, Sowbugs, Glassy-Wing Sharpshooters, Stink Bugs, Bark Scorpions</p> <p>* Except in California</p>	0.2-0.5 fl oz (1 1/3-3 teaspoons) (6-15 ml)	.04-0.1 fl oz (1/3-2/3 teaspoons) (1.2-3 ml)	<p>Apply YARDEX to perimeters and outside surfaces of residential, non-commercial, and commercial buildings such as industrial offices, institutional buildings, private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, storage sheds, patios</p> <p>Apply YARDEX using a low pressure, coarse fan spray, applied in even bands to surfaces and perimeters where pests are a problem. Apply the spray mixture at a volume equivalent to 5 gallons per 1,000 square feet. Depending on the severity of pest infestations, a re-treatment may be necessary at 7–14 days. Apply no more than 4 times per month or no more than 20 times per year. Typical re-treatment interval is 28 days.</p> <p>When using cold foggers or other ULV delivery systems for perimeter applications, apply the labeled amount of YARDEX over the square footage with the equipment manufacturer's requirement of water. Follow manufacturer's calibration procedures.</p> <p>Perimeter applications are made to a band of soil and/or vegetation 6 to 10 feet wide around and adjacent to the structure. Higher volumes of water may be needed if mulch or leaf litter is present or foliage is dense. These sites may include refuse dumps, vegetation areas, soil, trunks of woody ornamentals, and fence lines adjacent to or around the structure, and other areas near a structure where pests congregate or have been seen.</p> <p>Surface applications can be made to all outside surfaces of structures listed above and includes porches, window and door frames, eaves, and foundations. Apply as a crack and crevice treatment using a pinstream nozzle to pest harborage sites. Refrain from applying to the point of runoff.</p>



CROP/SITE	PEST	AMOUNT YARDEX IN WATER TO MAKE		SPECIFIC DIRECTIONS
		5 GALLONS	1 GALLON	
Woody and Herbaceous Ornamentals- Outdoors	Aphids, Thrips, Mites, Clover Mites, Whiteflies, Leaf-Feeding Caterpillars (i.e., Tent, Orlando, Gypsy Moth, Bagworm, Canker Worm, etc.) Lygus Plant Bugs Beetles (Flea, Cucumber, Elm Leaf) Leafhoppers, Earwigs, Ants, Crickets, Armyworms, Cutworms, Sowbugs, Chiggers*, Millipedes*, Springtails (Collembola) Adelgids, Mosquitoes, Glassy -Wing Sharpshooters, Stink Bugs, Bark Scorpions, Strawberry Root Weevils*, Obscure Root Weevils*, Blackvine Root Weevils* * Except in California	0.2-0.5 fl oz (1 1/3-3 teaspoons)	.04-0.1 fl oz (1.2-3 ml) (1/3-2/3 teaspoons)	Make applications to large, mature ornamental specimen plants or plants in containers larger than 5 gallons in size. Mix 0.2–0.5 fl oz or 1 1/3–3 teaspoons of YARDEX in 5 gallons of water. Apply 5 gallons of spray solution per equivalent of 1,000 square feet of growing area using a low pressure, coarse fan spray applications. Spray interval is typically 14–28 days but not more than 4 applications per month. Do not exceed 24 applications per year. Use sufficient water to thoroughly cover the surfaces to be treated. Use lower rates for light to moderate insect pressure. Spray on ground around base of tree or shrub and/or up main trunk or stem and foliage.
Eugenia and Pepper Tree	Psyllids	0.25-0.5 fl oz (1 1/2-3. teaspoons)	0.05-0.1 fl oz (1/3-2/3 teaspoons)	Apply 0.25-0.5 fl oz (1 1/2-3 teaspoons of YARDEX per 5 gallons of water to protect new foliage, depending on pest pressure. Use the higher rate of YARDEX for heavier infestations of psyllids. Apply 2 applications at 14 day intervals under heavy reinfestation pressure or if new foliage is present. If pruning is needed, prune the entire hedge, then delay application until adults and new shoots are present.
Ant Mound Treatment	Fire Ants and other mounding ant pests	0.5 fl oz (15 ml) (3 teaspoons)	0.1 fl oz (3 ml) (2/3 teaspoons)	<u>Individual ant mound treatment:</u> Apply as drench using 1 gallon of spray solution per mound to control mounding ant colonies, including the fire ant. Thoroughly mix 2/3 teaspoons (0.1 fl oz/3 ml) of YARDEX with 1 gallon of water. Drench the mound using 1 gallon of dilution per mound. Apply the dilution starting on the perimeter of the mound and ending at the center of the mound until the entire mound is wet but not to the point of runoff.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. **Pesticide Storage:** Store in a cool, dry place. Pesticides must be stored in a secured area away from other products, food, or feed. Keep pesticide storage areas clean. Always store pesticides in the original container. If a leaky container must be contained within another, mark the outer container to identify the contents. In case of a spill or leak, soak up with soil or other absorbent material. Do not use caustic agents. **Pesticide Disposal:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or disposal program (often such programs are run by state or local governments or by industry). **Container Handling:** Non-refillable container. Do not reuse or refill this container. Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available or puncture or dispose of in a sanitary landfill, or if allowed by state and local authorities by burning. If burned, stay out of smoke.

For more information or in case of emergency, call [phone number]

[www.zoecon.com](http://www.zoecon.com)

To the extent consistent with applicable law, Seller makes no warranty, express or implied, concerning the use of this product other than indicated on the label. To the extent consistent with applicable law, Buyer assumes all risk of use and handling of this material when such use and handling are contrary to label instructions.

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