

2724-478

8/18/2014

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

AUG 18 2014

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Ms. Nancy Huebl
Senior Registration Specialist
Wellmark International
1501 East Woodfield Road, Suite 200 West
Schaumburg, Illinois 60173

Subject: Product Name: Mavrik Aquaflow Insecticide/Miticide
EPA Reg. No. 2724-478
Submission date: July 20, 2011
Notification: Label Notification to add Non-Public Health Pests
(Stink Bugs/Bark Scorpions)
Decision No. 452476

Dear Ms. Huebl:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 7/20/2011 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have questions, please call Owen Beeder at 703-308-8899 or via e-mail at beeder.owen@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Suarez", written over a horizontal line.

Mark Suarez
Product Manager 13
Insecticide Branch
Registration Division (7505P)

2/19



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number Wellmark International/2724-478	2. EPA Product Manager Richard Gebken	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Wellmark International/Mavrik Aquaflow Insecticide	PM # 13	
5. Name and Address of Applicant / Registrant (Include ZIP Code) Wellmark International 1501 East Woodfield Road, Suite 200 West Schaumburg, Illinois 60173 <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 _____	

Section - II

Amendment - Explain below. Final printed labels in response to Agency letter dated 9/28/09

Resubmission in response to Agency letter dated _____ "Me Too" Application

Notification - Explain below. Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and section II.)

Section - III

1. Material This Product Will be Packaged In:

Child-Resistant Packaging <input checked="" type="checkbox"/> Yes <input 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	2. Type of Container <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" Unit Packaging wgt. No. per container	If "Yes" Unit Packaging wgt. No. per container

3. Location of Net Contents Information
 Label Container

4. Size(s) Retail Container
1 pt., 1 qt., 1 gal.

5. Location of Label Directions
 On Label
 On Label Accompanying Product

6. Manner in Which Label is Affixed to Product
 Lithograph
 Paper glued
 Stenciled Other _____

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Nancy Huebl	Title Senior Registration Specialist	Telephone No. (Include Area Code) (847) 330-5376
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Certification
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 statements may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received
(Stamped)

2. Signature <i>Nancy Huebl</i>	3. Title Senior Registration Specialist
4. Typed Name Nancy Huebl	5. Date 27-Jan-10

Wellmark International
1501 East Woodfield Road, Suite 200 West
Schaumburg, Illinois 60173
847 330 5300
www.wellmarkinternational.com

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January 27, 2010

Document Processing Desk (FPL)
Office of Pesticide Programs 7504P
U.S. Environmental Protection Agency
Room S-4900 One Potomac Yard
2777 South Crystal Drive
Arlington, Virginia 22202-4501

ATTENTION: Richard Gebken, PM 13

SUBJECT: SUBMISSION OF FINAL PRINTED LABELING FOR
MAVRIK AQUAFLOW® INSECTICIDE/MITICIDE/YARDEX® INSECTICIDE
EPA REG. NO. 2724-478
PER SEPTEMBER 28, 2009 EPA STAMPED APPROVED LABEL COMMENTS

Dear Mr. Gebken:

Enclosed is a completed EPA Form 8570-1 and 2 copies of final printed labeling incorporating the comment changes noted in the 9/28/09 EPA Reregistration approval letter. Additionally, enclosed is one highlighted label with a cover sheet indicating all revisions that were made (red is added text, blue strikethrough is deleted text). Please note, the SLN label comments are being handled as a separate action.

Please call me at 847-330-5376 if you have any questions regarding this submission. Thank you for your assistance on this action.

Yours sincerely,
WELLMARK INTERNATIONAL

Nancy Huebl
Senior Registration Specialist

enclosure

cc: S. Spaulding/J. McFadden/C. Elmi

cc: S. Spaulding/J. McFadden/C. Elmi

4/19

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

NOTIFICATION
AUG 18 2014

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**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).

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eyes. • Call a poison control center for treatment advice.
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 a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or 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. 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. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. 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. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

PHYSICAL/CHEMICAL HAZARDS

Do not use or store near heat or open flame.

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.

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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.

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GENERAL 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.

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CROP/SITE	PEST	AMOUNT MAVRIK AQUAFLOW IN WATER TO MAKE		SPECIFIC DIRECTIONS
		100 GALLONS	5 GALLONS	
<p>For Outdoor Applications: 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. 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	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, 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 * Except in California	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>

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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.

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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.
Indoor applications:				
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.

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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).

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]

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

13/19

[] optional text

ZOËCON®

**OUTDOOR FLEA/ANT* CONTROL
YARDEX® INSECTICIDE**

Alternate brand name: MAVRIK® Perimeter

For commercial use only on outdoor plants in ornamental plantings, plantscapes (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, and-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).

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. • Call a poison control center for treatment advice.
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 dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or 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.

15/19

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. 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. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. 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. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

PHYSICAL/CHEMICAL HAZARDS

Do not use or store near heat or open flame.

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.

DIRECTIONS FOR USE

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

GENERAL PRECAUTIONS/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.

GENERAL 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.

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CROP/SITE	PEST	AMOUNT YARDEX IN WATER TO MAKE		SPECIFIC DIRECTIONS
		5 GALLONS	1 GALLON	
<p>For Outdoor Applications: 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. 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, 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>

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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.

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

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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