

~~2215567331
18/31~~UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

SEP 15 1999

Ms. Nancy Huebl
Wellmark International
1000 Tower Lane, Suite 245
Bensenville, IL 60106

Dear Ms. Huebl:

Subject: Revised Labeling, Master Label and Sub-labels
Mavrik Aquaflow Insecticide
EPA Reg. No. 2724-478
Your Submission Dated August 20, 1999

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

1. On the master label:
 - a. On pages 2 and 10, at the end of the first paragraph under PRECAUTIONARY STATEMENTS, add the following: "Remove contaminated clothing and wash clothing before reuse."
 - b. On page 3, after the first paragraph under the heading "Engineering Controls Statements," insert the following paragraph: "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."
2. On the Mavrik and Yardex sub-labels:
 - a. On pages 2 and 10, revise the PRECAUTIONARY STATEMENTS per comment a above for the master label.
 - b. On page 3 of the Mavrik sub-label, revise per comment b above for the master label.

Submit 2 copies of your final printed labeling before you release the product for shipment. A stamped copy of the labeling is enclosed for your records.

If you have any questions regarding this letter, please contact John Leahy of my team at (703) 305-6703.

Sincerely yours,

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

)
Enclosure

REGULATORY LABEL DATA SHEET

File Name: g:\regulatory\labels\cahspec\02724478\pmavaqua 99a
Data Sheet Date: August 1999
Product: MAVRIK AQUAFLOW Insecticide/Miticide
EPA Reg #: 2724-478 (was 55947-101)
Approved: Submitted
Supersedes: 1/31/95

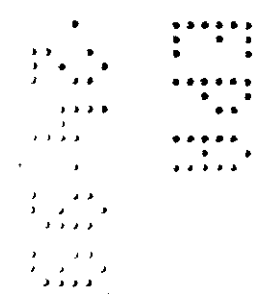
OVERVIEW: Master label submitted as Wellmark, updated per PRN 97-5 & 6, new registration number, CLI, removed Pentac, added Zee's (fire ant, psyllids) includes comments from EPA 6/24/98 letter, (MAVRIK AQUAFLOW label, pages 1-8; YARDEX label, pages 9-15)

Page #	Description of Major Changes
MAVRIK AQUAFLOW REVISIONS	
1	Revised to one header/use sites -per 6/24/98 EPA letter Ingredient Statement - Tau-fluvalinate - removed chemical name, added CAS # - PRN 97-5 Changed "Inert" to "Other" - PRN 97-6 Patent reference removed Changed EPA Reg. No. 55947-101 to Wellmark number 2724-478 (transfer)
2	Revised Precautionary Statements/First Aid per EPA letter 6/24/98 Changed information/emergency reference/phone number from Sandoz to Wellmark Added (PPE) - acronym for Personal Protective Equipment
3 & 5	PPE section - gloves - removed "or" from between each type of glove listed Revised per EPA letter 6/24/98 and PRN 98-9 (respirator) Engineering Controls Statements - deleted "or aircraft", aerial application prohibited
4	Environmental Hazards - Revised per EPA letter 6/24/98 added text per EPA study (honey bee acute/foliar residue) review 4/26/96 Deleted "For terrestrial uses", PRN 93-8 Storage and Disposal - Added text to specify type of disposal (Pesticide, Container)

ACCEPTED
 with COMMENTS
 in EPA Letter Dated

SEP 15 1999

Under the Federal Insecticide,
 Fungicide, and Rodenticide Act
 as amended, for the pesticide
 registered under EPA Reg. No.
2724-478



5	<p>Text following Ag/Non-Ag Use boxes — New text added per 6/24/98 EPA letter</p> <p>Deleted last sentence in paragraph, no longer valid, this information is contained on label</p>
6	<p>General Directions - 4th paragraph - Pentac Miticide deleted as recommended acaricide (Novartis is canceling federal registration)</p> <p>Last paragraph - Changed reference from Sandoz to Wellmark</p> <p>Added last sentence regarding tank mixing per 6/24/98 EPA letter</p>
7	<p>Use patterns revised per EPA 6/24/98 letter</p> <p>Recommended Application Rates, Specific Directions — Foliage Flowering Plants section changed Pentac Aquaflo to generic "an acaricide" (Novartis canceling federal registration)</p> <p>"For greenhouse applications" paragraph, "One hundred" (text) removed leaving the number 100; abbreviation for Electro Static Spraying System corrected (EES to ESS); added "equipment" manufacturer's (per EPA 6/24/98 letter)</p> <p>Deleted outdoor broadcast treatment</p> <p>Commercial/Residential Woody Ornamentals section - Including 2ee in federal label (psyllids/eugenia & pepper tree)</p>
8	<p>Revised crop description to "Landscape and Recreational Turfgrass" per EPA 6/24/98 letter</p> <p>Turf section — including 2ee in federal label (imported fire ant)</p> <p>Warranty - Sandoz warranty replaced by Wellmark warranty</p> <p>Trademark sentence revised Sandoz to Wellmark and Pentac removed (canceled)</p> <p>Name/address change Sandoz to Wellmark</p>

YARDEX REVISIONS

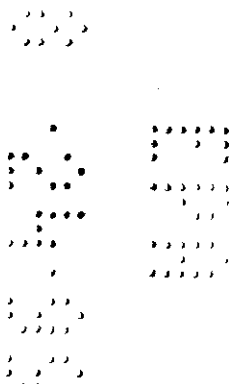
9	<p>Added "For commercial use only" per EPA comment 6/24/98 letter</p> <p>Per EPA 6/24/98 letter, moved statement to remove from WPS to front panel from General Directions and deleted "golf courses" from statement</p>
10	<p>Revised Precautionary Statements/First Aid/PPE per EPA letter 6/24/98</p> <p>PPE: Deleted PPE bullet for "indoor exposure" — this is outdoor product</p> <p>Removed "Outdoor exposures" as that is the only use pattern for this label</p> <p>Per PRN 98-9, added new respirator designations</p>
11	<p>Environmental Hazards added "and aquatic invertebrates"— per EPA 6/24/98 letter</p>

12	Directions for Use: Per EPA 6/24/98 letter, removed Non-Ag Use box but kept statement "Keep children and pets...treatment dries." and "Some sensitive pets... respiratory distress." Per EPA 6/24/98 letter, added "by aerial application" to "Do not apply this product..." statement
14	Rate Table: Revised headings per EPA 6/24/98 letter Removed outdoor broadcast use directions per EPA 6/24/98 letter
15	Removed fire ants (need to submit efficacy)

REGULATORY: S. Spaulding

MARKETING J. Neberz/T. Nahley

EPA PRODUCT MANAGER G. LaRocca/J. Leahy



MASTER LABEL

MAVRIK AQUAFLOW® INSECTICIDE/MITICIDE

For commercial use only on indoor plants (including greenhouses) and interior plantscapes, outdoor ornamental plantings and plantscapes, including lawns, trees, shrubs, and flower and foliage cuttings

~~Recommended For Commercial Use Only~~

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

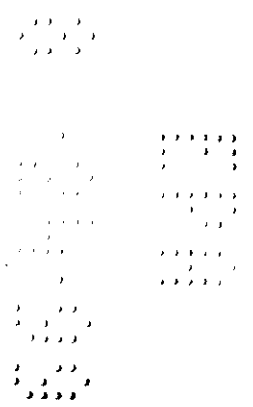
KEEP OUT OF REACH OF CHILDREN

CAUTION

See additional Precautionary Statements and Statements of Practical Treatment

SHAKE WELL BEFORE USING

Net Contents



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

Harmful if swallowed, inhaled, or absorbed through skin. **Avoid Breathing Spray Mist.** Certain persons may be sensitive to MAVRIK AQUAFLOW® fine spray particles. ~~Respiratory effects are temporary and will generally subside without medical treatment.~~ Causes mild-moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

→ *Respiratory effects are temporary and will generally subside without medical treatment.*

Sensitive individuals may temporarily experience an itching, burning, or tingling sensation, with or without a rash, following exposure. These symptoms will usually subside without requiring medical treatment. Avoid hand or sleeve-to-face contact. Prior to exposure or after washing, an application of corn oil to exposed skin may reduce these symptoms.

FIRST AID

IF INHALED: Remove individual-victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

IF ON SKIN: Wash with plenty of soap and water. Apply corn oil to affected area to relieve symptoms. Get medical attention if irritation or symptoms develop persists.

IF SWALLOWED: Call a physician or poison control center immediately. Drink one or two glasses of water and induce vomiting by touching the back of throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person.

For 24 Hour Medical or Chemical Emergency Assistance
Call Wellmark International
[Phone Number]

Personal Protective Equipment (PPE):

WPS USES:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) -- in general, agricultural-plant uses are covered -- must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber (≥14 mils), nitrile rubber (≥14 mils), neoprene rubber (≥14 mils), polyvinyl chloride (PVC)(≥14 mils), or viton (≥14 mils)
- Shoes plus socks
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any R, P, or HE filter.
- For exposures in enclosed areas, a respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

NON-WPS USES:

Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170) -- in general, agricultural-plant uses are covered by the WPS -- must wear:

- Protective clothing
- Rubber gloves while handling; workers in frequent contact with treated foliage should wear light barrier gloves to reduce excess exposure.
- For indoor application exposures: Use a properly fitted NIOSH approved respirator (number prefix TC-21C) or a NIOSH approved respirator with any R, P, or HE filter for use with pesticides to avoid potential irritation to nose and throat from fine spray particles. NOTE: Persons other than applicator should not be present at time of application.
- Outdoor exposures: For sensitive persons using MAVRIK AQUAFLOW outdoors, use a NIOSH approved (number prefix TC-21C) filter mask respirator for dusts and mists or 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, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statements:

When handlers use closed systems, or enclosed cabs, or aircraft 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: [LRM p. 8-14]

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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 highly toxic to fish and aquatic invertebrates. 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. Do not apply when weather conditions favor drift from the target area. Do not contaminate water when 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.

Storage: Store away from direct sunlight or heat. Pesticides must be stored in a secured area away from other products, food, or feed. In case of spill or leak, soak up with soil or other absorbent material. Do not use caustic agents.

Pesticide Disposal: Wastes resulting from the use of MAVRIK AQUAFLOW may be disposed of on site or at any approved waste disposal facility.

Container Disposal: Triple rinse container (or equivalent). Puncture and dispose of in a sanitary landfill, by incineration 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.

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 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.

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, such as barrier laminate, butyl rubber (≥14 mils), nitrile rubber (≥14 mils), neoprene rubber (≥14 mils), polyvinyl chloride (PVC)(≥14 mils), or viton (≥14 mils)
- 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 children and pets off treated turf until treatment dries because some sensitive pets eating or coming in contact with freshly treated turf may demonstrate vomiting and respiratory distress.

For end use only. Do not repackage or reformulate without manufacturer's written approval. 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.

GENERAL DIRECTIONS

MAVRIK AQUAFLOW controls insects and controls or suppresses mite pests when used at recommended 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 crop damage occurs. Repeat application as needed. MAVRIK AQUAFLOW will appear to work more slowly on some species than some conventional products, but good evaluation of performance can generally be made three to four days after treatment. Where heavy populations are present, repeated applications five to seven days apart may be necessary to bring pests under adequate control. Residues of MAVRIK AQUAFLOW can continue to control certain insect pests for a week or longer. Growth dilution, climatic variables, and pest habits determine retreatment needs.

Dilute MAVRIK AQUAFLOW in sufficient water to give thorough spray coverage based on local crop protection experience. Buffer spray water to pH 5-7, if necessary. 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-repellant to honeybees. Treat during non-foraging periods to minimize adverse effects.

For best results under varying conditions, a range of use rates is recommended. The higher rates must be selected when pest pressure or damage potential is severe. The lower rates often give acceptable economic results. 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 mealy bugs.

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 mixing.

Recommended Application Rates

Crop	Pest	Amount MAVRIK In Water To Make		Specific Directions
		100 Gal	5 Gal	
Foliage	Aphid	4.0-10.0	0.2-0.5	<p>Use sufficient water to thoroughly—cover the foliage. Use lower rates for light to moderate insect pressure. Use higher rates for green peach aphids, unexposed thrips, and heavy pressure of other insects.</p> <p>Mite suppression can be obtained using the lower rate. For more residual control use up to 10 fl oz/100 gal water. For maximum effect tank mix with an acaricide.</p> <p>For greenhouse applications (broadcast, fogger, or bench) use the rates "4.0-10.0 fl oz" recommended in the "amount MAVRIK in water to make: 100 gal" column. 100 gallons of spray will typically cover 20,000 sq ft of greenhouse space. When using Electro Static Spraying System (ESS®), Puls-fog®, or other ULV delivery systems, apply the recommended amount of MAVRIK over the square footage with the equipment manufacturer's requirement of water. Follow manufacturer's calibration procedures.</p> <p>For outdoor broadcast treatment use the rate of 5 fl oz of MAVRIK per acre.</p>
Flowering Plants	Thrips	4.0-10.0	0.2-0.5	
Woody and	Mites	fl oz	fl oz	
—Herbaceous	Whiteflies		(1.33-3.0)	
—Ornamentals	Leaf-Feeding		teaspoons	
Conifers-	Caterpillars			
(including	(i.e., Tent,			
Christmas Trees,	Orlando, Gypsy			
Shade Trees and	Moth, Bagworm,			
Non-Food	Canker Worm, etc.)			
Bedding Plants)	Lygus Plant Bugs			
Landscape Ornamentals	Beetles (Flea,			
(including trees, shrubs,	Cucumber, Elm Leaf)			
evergreens, flowers,	Leafhoppers			
foliage plants				
Greenhouse				
(non-food plants)				
		100 Gal	5 Gal	
Commercial and	Strawberry Root			<p>Apply spray on ground around base of tree or shrub and up main trunk or stem.</p>
Residential Woody	Weevils*			
and Herbaceous	Obscure Root	6.4-10.0	0.32-0.5	
Ornamentals	Weevils*	fl oz	fl oz	
	Blackvine		1.66-3.0	
	Root Weevils*		teaspoons)	
Eugenia and	Psyllids	5.0-10.0		<p>Apply 5-10 fl oz of MAVRIK per 100 gallons of water to protect new foliage, depending on pest pressure. If pruning is needed, prune the entire hedge then delay application until adults and new shoots are present. Apply second application at 1 month interval under heavy reinfestation pressure and if new foliage is present.</p>
Pepper Tree				

* Except in California

Crop	Pest	Amount MAVRIK Per		Specific Directions
		100 Gal	5 Gal	
Flower and Foliage Cuttings (for Dipping)	Mealybugs			Immerse basket of cuttings into a diluted solution of MAVRIK until thoroughly wet (usually 1 minute or less).
	Aphids	5.0	0.24	
	Two-Spotted Spider Mites	fl oz	fl oz	
			(1.5 teaspoons)	

Crop	Pest	Amount MAVRIK Per		Specific Directions
		1000 Ft. ²	Acre	
Commercial & Residential Turf	Chinch Bug	0.11-0.23	5.0-10.0	Use sufficient water to penetrate to pest.
	Earwig*	fl oz	fl oz	
Landscape & Recreational Turfgrass (including home lawns, business & office complexes, shopping complexes, multifamily residential complexes, airports, cemeteries, parks, playgrounds & athletic fields, & other landscape turfgrass)	Ticks	(0.73-1.45		Use lower rates for <u>thatch inhabitants</u> , such as, fleas, ticks, and chiggers. Repeat application in 10 days. Use medium rate for <u>grassfeeders</u> , such as sod webworms, Bermuda mites, chinch bugs, armyworms. Use maximum rate for cutworms.
	Ants*	teaspoons)		
	Lawn Moths (Sod Webworms)			
	Bermuda Mites*			
	Crickets*			
	Armyworms			
	Brown Dog Ticks			
	Chiggers*			
	Clover Mites			
	Cutworms			
	Fleas			
	Leafhoppers			
Sowbugs*				
Millipedes*				
Springtails (Collembola)*				

Imported Fire Ant* 2 teaspoons/ 5 gallons water Gently sprinkle 1 gallon of solution on each mound taking care not to disturb the mound. Apply to new mounds as they appear. Do not apply to more than 150 mounds per acre at any one time.

* Except in California

Seller makes no warranty, express or implied, concerning the use of this product other than indicated on the label. 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.
Puls-Fog® is a registered trademark of Dramm International.
MAVRIK AQUAFLOW® is a registered trademark of Wellmark International.

Wellmark International
Bensenville, IL 60106
Made in USA

ZOECON®
OUTDOOR FLEA/ANT* CONTROL
YARDEX® INSECTICIDE

For commercial use only on outdoor ornamental plantings, plantscapes, turf, trees, shrubs

ACTIVE INGREDIENT:	
Tau-fluvalinate (CAS #102851-06-9).....	22.3%
OTHER INGREDIENTS:	<u>77.7%</u>
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, ~~or on golf courses~~, or lawns and grounds.

* Except in California

Net Contents

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

Harmful if swallowed, inhaled, or absorbed through skin. **Avoid Breathing Spray Mist.** Certain persons may be sensitive to YARDEX® fine spray particles. ~~Respiratory effects are temporary and will generally subside without medical treatment. Causes mild-moderate eye irritation.~~ Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

(Wash gloves ---)
Sensitive individuals may temporarily experience an itching, burning, or tingling sensation, with or without a rash, following exposure. These symptoms will usually subside without requiring medical treatment. Avoid hand or sleeve-to-face contact. Prior to exposure or after washing, an application of corn oil to exposed skin may reduce these symptoms.

FIRST AID

IF INHALED: Remove individual-victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

IF ON SKIN: Wash with plenty of soap and water. Apply corn oil to affected area to relieve symptoms. Get medical attention if irritation or symptoms developpersists.

IF SWALLOWED: Call a physician or poison control center immediately. Drink one or two glasses of water and induce vomiting by touching the back of throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person.

For 24 Hour Medical or Chemical Emergency Assistance
Call Wellmark International
[Phone Number]

Personal Protective Equipment (PPE):

NON-WPS USES:

Applicators and other handlers who handle this pesticide for any use **NOT** covered by the Worker Protection Standard (40 CFR Part 170) — in general, agricultural plant uses are covered by the WPS — must wear:

- Protective clothing
- Rubber gloves while handling; workers in frequent contact with treated foliage should wear light barrier gloves to reduce excess exposure.
- For indoor application exposures: ~~Use a properly fitted NIOSH approved respirator (number prefix TC-21C) or a NIOSH approved respirator with any R, P, or HE filter for use with pesticides to avoid potential irritation to nose and throat from fine spray particles. NOTE: Persons other than applicator should not be present at time of application.~~
- Outdoor exposures: For sensitive persons using YARDEX outdoors, use a NIOSH approved (number prefix TC-21C) filter mask respirator for dusts and mists or 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, 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 clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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 highly toxic to fish and aquatic invertebrates. 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. Do not apply when weather conditions favor drift from the target area. Do not contaminate water when 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.

Storage: Store away from direct sunlight or heat. Pesticides must be stored in a secured area away from other products, food, or feed. In case of spill or leak, soak up with soil or other absorbent material. Do not use caustic agents.

Pesticide Disposal: Wastes resulting from the use of YARDEX may be disposed of on site or at any approved waste disposal facility.

Container Disposal: Triple rinse container (or equivalent). Puncture and dispose of in a sanitary landfill, by incineration 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.

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 children and pets off treated turf until treatment dries. ~~because~~ Some sensitive pets eating or coming in contact with freshly treated turf may demonstrate vomiting and respiratory distress.

For end use only. Do not repackage or reformulate without manufacturer's written approval. Do not apply this product by aerial application or through any type of irrigation system.

GENERAL DIRECTIONS

~~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, or on golf courses, or lawns and grounds.~~

YARDEX controls insects and controls or suppresses mite pests when used at recommended 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 application as needed. YARDEX will appear to work more slowly on some species than some conventional products, but good evaluation of performance can generally be made three to four days after treatment. Where heavy populations are present, repeated applications five to seven days apart may be necessary to bring pests under adequate control. 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 local experience. Buffer spray water to pH 5-7, if necessary. 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-repellant to honeybees. Treat during non-foraging periods to minimize adverse effects.

For best results under varying conditions, a range of use rates is recommended. The higher rates must be selected when pest pressure or damage potential is severe. The lower rates often give acceptable economic results. 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 mealy bugs.

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.

Recommended Application Rates

Crop	Pest	Amount YARDEX In Water To Make		Specific Directions
		100 Gal	5 Gal	
Foliage	Aphids	4.0-10.0	0.2-0.5	Use sufficient water to thoroughly cover the foliage. Use lower rates for light to moderate insect pressure. Use higher rates for green peach aphids, unexposed thrips, and heavy pressure of other insects. Mite suppression can be obtained using the lower rate. For more residual control use up to 10 fl oz/100 gal water. For outdoor broadcast treatment use the rate of 5 fl oz of YARDEX per acre.
Flowering Plants	Thrips	4.0-10.0	0.2-0.5	
Woody and	Mites	fl oz	fl oz	
Herbaceous	Whiteflies		(1.33-3.0)	
Ornamentals	Leaf-Feeding		teaspoons	
Conifers	Caterpillars			
Shade Trees	(i.e., Tent,			
Non-Food	Orlando, Gypsy			
Bedding Plants	Moth, Bagworm,			
Landscape Ornamentals	Canker Worm, etc.)			
(including trees, shrubs,	Lygus Plant Bugs			
evergreens, flowers,	Beetles (Flea,			
foliage plants	Cucumber, Elm Leaf)			
	Leafhoppers			

Crop	Pest	100 Gal	5 Gal	Specific Directions
Woody and	Strawberry Root			Apply spray on ground around base of tree or shrub and up main trunk or stem.
Herbaceous	Weevils*			
Ornamentals	Obscure Root	6.4-10.0	0.32-0.5	
	Weevils*	fl oz	fl oz	
	Blackvine		1.66-3.0	
	Root Weevils*		teaspoons)	
Eugenia and	Psyllids	5.0-10.0		Apply 5-10 fl oz of YARDEX per 100 gallons of water to protect new foliage, depending on pest pressure. If pruning is needed, prune the entire hedge then delay application until adults and new shoots are present. Apply second application at 1 month interval under heavy reinfestation pressure and if new foliage is present.
Pepper Tree				

* Except in California

Crop	Pest	Amount YARDEX Per		Specific Directions
		1000 Ft. ²	Acre	
Turf Landscape & Recreational Turfgrass (including home lawns, business & office complexes, shopping complexes, multifamily residential complexes, airports, cemeteries, parks, playgrounds, & athletic fields, & other landscape turfgrass)	Chinch Bug	0.11-0.23	5.0-10.0	Use sufficient water to penetrate to pest.
	Earwig*	fl oz	fl oz	
	Ticks	(0.73-1.45		Use lower rates for <u>thatch inhibitors</u> , such as, fleas, ticks, and chiggers. Repeat application in 10 days.
	Ants*	teaspoons)		
	Lawn Moths (Sod Webworms)			
	Bermuda Mites*			
	Crickets*			
	Armyworms			
	Brown Dog Ticks			
	Chiggers*			
	Clover Mites			
	Cutworms			
	Fleas			
	Leafhoppers			
	Sowbugs*			
Millipedes*				
Springtails (Collembola)*			Use medium rate for <u>grassfeeders</u> , such as sod webworms, Bermuda mites, chinch bugs, armyworms.	
				Use maximum rate for cutworms.
	Imported Fire Ant*	2 teaspoons/	5 gallons water	Gently sprinkle 1 gallon of solution on each mound taking care not to disturb the mound. Apply to new mounds as they appear. Do not apply to more than 150 mounds per acre at any one time.

* Except in California

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

YARDEX® Insecticide is a registered trademark of Wellmark International.

Wellmark International
Bensenville, IL 60106

Made in USA

REGULATORY LABEL DATA SHEET

File Name: g:\regulatory\labels\cahspec\02724478\pmavaqua 99b **Data Sheet Date:** August 1999

Product: MAVRIK
AQUAFLOW/YARDEX
Insecticide/Miticide **EPA Reg #:** 2724-478 (was 55947-101)

Approved: Submitted **Supersedes:** 1/31/95

OVERVIEW: Subsets of master label deleting turf use pattern (MAVRIK AQUAFLOW label, pages 1-8; YARDEX label, pages 9-14)

Page #	Description of Major Changes
MAVRIK AQUAFLOW REVISIONS	
1	Removed "lawns" from header (use sites)
5	Non-Ag Use box – revised last sentence to reflect deletion of turf use pattern
8	Deleted turf use pattern/pests/rates/directions
YARDEX REVISIONS	
9	Removed "Outdoor flea/ant* Control", turf pests, turf use pattern being deleted Removed "**Except in California" Statement to remove from WPS scope, removed golf courses and lawns
11	Directions for Use: Revised 2 nd statement to reflect turf deletion
14	Removed turf site/pests/rates/directions and *Except in California

REGULATORY: S. Spaulding
MARKETING J. Neberz/T. Nahley
EPA PRODUCT MANAGER G. LaRocca/J. Leahy

ACCEPTED
with COMMENTS
in EPA Letter Dated

SEP 15 1999

1

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

2724-478

SUBLABEL

MAVRIK AQUAFLOW® INSECTICIDE/MITICIDE

For commercial use only on indoor plants in greenhouses and interior plantscapes, outdoor ornamental plantings and plantscapes, including lawns, trees, shrubs, and flower and foliage cuttings

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

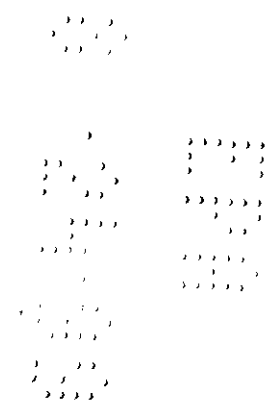
KEEP OUT OF REACH OF CHILDREN

CAUTION

See additional Precautionary Statements and Statements of Practical Treatment

SHAKE WELL BEFORE USING

Net Contents



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

CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. **Avoid Breathing Spray Mist.** Certain persons may be sensitive to MAVRIK AQUAFLOW®'s fine spray particles. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

→ *Remove contaminated clothing + wash clothing before use.*

Sensitive individuals may temporarily experience an itching, burning, or tingling sensation, with or without a rash, following exposure. These symptoms will usually subside without requiring medical treatment. Avoid hand or sleeve-to-face contact. Prior to exposure or after washing, an application of corn oil to exposed skin may reduce these symptoms.

FIRST AID

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

IF ON SKIN: Wash with plenty of soap and water. Apply corn oil to affected area to relieve symptoms. Get medical attention if irritation or symptoms develop.

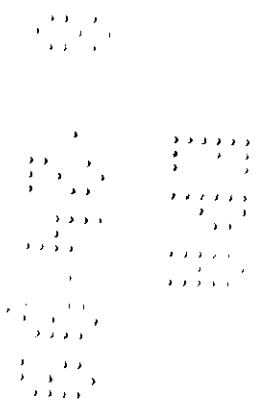
IF SWALLOWED: Call a physician or poison control center immediately. Drink one or two glasses of water and induce vomiting by touching the back of throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person.

For 24 Hour Medical or Chemical Emergency Assistance
Call Wellmark International
[Phone Number]

Personal Protective Equipment (PPE):

WPS USES:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.



Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) -- in general, agricultural-plant uses are covered -- must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), neoprene rubber (≥ 14 mils), polyvinyl chloride (PVC) (≥ 14 mils), or viton (≥ 14 mils)
- Shoes plus socks
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any R, P, or HE filter.
- For exposures in enclosed areas, a respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

NON-WPS USES:

Applicators and other handlers who handle this pesticide for any use **NOT** covered by the Worker Protection Standard (40 CFR Part 170) -- in general, agricultural-plant uses are covered by the WPS -- must wear:

- Protective clothing
- Rubber gloves while handling; workers in frequent contact with treated foliage should wear light barrier gloves to reduce excess exposure.
- Indoor exposures: Use a properly fitted NIOSH approved respirator (number prefix TC-21C) or a NIOSH approved respirator with any R, P, or HE filter for use with pesticides to avoid potential irritation to nose and throat from fine spray particles. NOTE: Persons other than applicator should not be present at time of application.
- Outdoor exposures: For sensitive persons, use a NIOSH approved (number prefix TC-21C) filter mask respirator for dusts and mists or 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, use detergent and hot water. Keep and wash PPE separately from other laundry.

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: (Paragraph from p 8-14 of LRM)

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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 highly toxic to fish and aquatic invertebrates. 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. Do not apply when weather conditions favor drift from the target area. Do not contaminate water when 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.

Storage: Store away from direct sunlight or heat. Pesticides must be stored in a secured area away from other products, food, or feed. In case of spill or leak, soak up with soil or other absorbent material. Do not use caustic agents.

Pesticide Disposal: Wastes resulting from the use of MAVRIK AQUAFLOW may be disposed of on site or at any approved waste disposal facility.

Container Disposal: Triple rinse container (or equivalent). Puncture and dispose of in a sanitary landfill, by incineration 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.

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 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.

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, such as barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), neoprene rubber (≥ 14 mils), polyvinyl chloride (PVC) (≥ 14 mils), or viton (≥ 14 mils)
- 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 off of treated turf-area until spray has treatment dries. ~~because~~ Some sensitive pets eating or coming in contact with freshly treated turf-plants may demonstrate vomiting and respiratory distress.

For end use only. Do not repackage or reformulate without manufacturer's written approval. 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.

GENERAL DIRECTIONS

MAVRIK AQUAFLOW controls insects and controls or suppresses mite pests when used at recommended 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 crop damage occurs. Repeat application as needed. MAVRIK AQUAFLOW will appear to work more slowly on some species than some conventional products, but good evaluation of performance can generally be made three to four days after treatment. Where heavy populations are present, repeated applications five to seven days apart may be necessary to bring pests under adequate control. Residues of MAVRIK AQUAFLOW can continue to control certain insect pests for a week or longer. Growth dilution, climatic variables, and pest habits determine retreatment needs.

Dilute MAVRIK AQUAFLOW in sufficient water to give thorough spray coverage based on local crop protection experience. Buffer spray water to pH 5-7, if necessary. 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-repellant to honeybees. Treat during non-foraging periods to minimize adverse effects.

For best results under varying conditions, a range of use rates is recommended. The higher rates must be selected when pest pressure or damage potential is severe. The lower rates often give acceptable economic results. 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 mealy bugs.

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 mixing.

Recommended Application Rates

Crop	Pest	Amount MAVRIK In Water To Make		Specific Directions
		100 Gal	5 Gal	
Landscape Ornamentals (including trees, shrubs, evergreens, flowers, foliage plants Greenhouse (non-food plants)	Aphid	4.0-10.0	0.2-0.5	Use sufficient water to thoroughly cover the foliage. Use lower rates for light to moderate insect pressure. Use higher rates for <i>green peach aphids</i> , <i>unexposed thrips</i> , and heavy pressure of other insects. Mite suppression can be obtained using the lower rate. For more residual control use up to 10 fl oz/100 gal water. For maximum effect tank mix with an acaricide. For greenhouse applications (broadcast, fogger, or bench) use the rates "4.0-10.0 fl oz" recommended in the "amount MAVRIK in water to make: 100 gal" column. 100 gallons of spray will typically cover 20,000 sq ft of greenhouse space. When using Electro Static Spraying System (ESS®), Puls-fog®, or other ULV delivery systems, apply the recommended amount of MAVRIK over the square footage with the equipment manufacturer's requirement of water. Follow manufacturer's calibration procedures.
	Thrips	fl oz	fl oz	
	Mites			
	Whiteflies		(1.33-3.0)	
	Leaf-Feeding Caterpillars (i.e., Tent, Orlando, Gypsy Moth, Bagworm, Canker Worm, etc.)		teaspoons	
	Lygus Plant Bugs			
	Beetles (Flea, Cucumber, Elm Leaf)			
	Leafhoppers			

Crop	Pest	100 Gal	5 Gal	Specific Directions
		fl oz	fl oz	
Woody and Herbaceous Ornamentals	Strawberry Root Weevils*	6.4-10.0	0.32-0.5	Apply spray on ground around base of tree or shrub and up main trunk or stem.
	Obscure Root Weevils*	fl oz	fl oz	
	Blackvine		1.66-3.0	
	Root Weevils*		teaspoons)	
Eugenia and Pepper Tree	Psyllids	5.0-10.0		Apply 5-10 fl oz of MAVRIK per 100 gallons of water to protect new foliage, depending on pest pressure. If pruning is needed, prune the entire hedge then delay application until adults and new shoots are present. Apply second application at 1 month interval under heavy reinfestation pressure and if new foliage is present.

* Except in California

Crop	Pest	Amount MAVRIK Per		Specific Directions
		100 Gal	5 Gal	
Flower and Foliage Cuttings (for Dipping)	Mealybugs			Immerse basket of cuttings into a diluted solution of MAVRIK until thoroughly wet (usually 1 minute or less).
	Aphids	5.0	0.24	
	Two-Spotted Spider Mites	fl oz	fl oz	
			(1.5 teaspoons)	

Crop	Pest	Amount MAVRIK Per		Specific Directions
		1000 Ft. ²	Acre	
Landscape & Recreational Turfgrass	Chinch Bug	0.11-0.23	5.0-10.0	Use sufficient water to penetrate to pest.
	Earwig*	fl oz	fl oz	
(including home lawns, business & office complexes, shopping complexes, multifamily residential complexes, airports, cemeteries, parks, playgrounds & athletic fields, & other landscape turfgrass)	Ticks	(0.73-1.45 teaspoons)		Use lower rates for <u>thatch inhabitants</u> , such as, fleas, ticks, and chiggers. Repeat application in 10 days.
	Ants*			
	Lawn Moths (Sod Webworms)			
	Bermuda Mites*			
	Crickets*			
	Armyworms			
	Brown Dog Ticks			
	Chiggers*			
	Clover Mites			
	Cutworms			
	Fleas			Use medium rate for grassfeeders, such as sod webworms, Bermuda mites, chinch bugs, armyworms.
	Leafhoppers			
	Sowbugs*			
	Millipedes*			
	Springtails (Collembola)*			
				Use maximum rate for cutworms.

* Except in California

Seller makes no warranty, express or implied, concerning the use of this product other than indicated on the label. 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.
 Puls-Fog® is a registered trademark of Dramm International.
 MAVRIK AQUAFLOW® is a registered trademark of Wellmark International.

Wellmark International
 Bensenville, IL 60106
 Made in USA

30 A 35

SUB LABEL

ZOECON®

OUTDOOR FLEA/ANT* CONTROL
YARDEX® INSECTICIDE

For commercial use only on outdoor ornamental plantings, plantscapes, ~~turf~~, trees, shrubs

ACTIVE INGREDIENT:	
Tau-fluvalinate (CAS #102851-06-9).....	22.3%
OTHER INGREDIENTS:	<u>77.7%</u>
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 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, ~~or on golf courses, or lawns and grounds.~~

*-Except in California

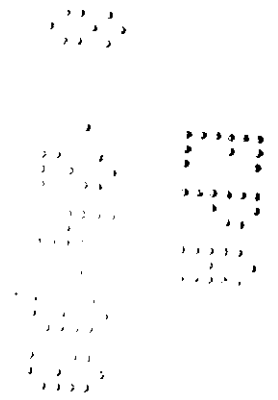
Net Contents

ACCEPTED
with COMMENT
in EPA Letter Da.

SEP 15 1999

9

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
2724-478



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

CAUTION

Wash clothing → Harmful if swallowed, inhaled, or absorbed through skin. **Avoid Breathing Spray Mist.** Certain persons may be sensitive to YARDEX®'s fine spray particles. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

Sensitive individuals may temporarily experience an itching, burning, or tingling sensation, with or without a rash, following exposure. These symptoms will usually subside without requiring medical treatment. Avoid hand or sleeve-to-face contact. Prior to exposure or after washing, an application of corn oil to exposed skin may reduce these symptoms.

FIRST AID

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

IF ON SKIN: Wash with plenty of soap and water. Apply corn oil to affected area to relieve symptoms. Get medical attention if irritation or symptoms develop.

IF SWALLOWED: Call a physician or poison control center immediately. Drink one or two glasses of water and induce vomiting by touching the back of throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person.

For 24 Hour Medical or Chemical Emergency Assistance
Call Wellmark International
[Phone Number]

Personal Protective Equipment (PPE):

Applicators and other handlers must wear:

- Protective clothing
- Rubber gloves while handling; workers in frequent contact with treated foliage should wear light barrier gloves to reduce excess exposure.
- For sensitive persons, use a NIOSH approved (number prefix TC-21C) filter mask respirator for dusts and mists or 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, 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 clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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 highly toxic to fish and aquatic invertebrates. 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. Do not apply when weather conditions favor drift from the target area. Do not contaminate water when 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.

Storage: Store away from direct sunlight or heat. Pesticides must be stored in a secured area away from other products, food, or feed. In case of spill or leak, soak up with soil or other absorbent material. Do not use caustic agents.

Pesticide Disposal: Wastes resulting from the use of YARDEX may be disposed of on site or at any approved waste disposal facility.

Container Disposal: Triple rinse container (or equivalent). Puncture and dispose of in a sanitary landfill, by incineration 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.

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

For end use only. Do not repackage or reformulate without manufacturer's written approval. 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 recommended 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 application as needed. YARDEX will appear to work more slowly on some species than some conventional products, but good evaluation of performance can generally be made three to four days after treatment. Where heavy populations are present, repeated applications five to seven days apart may be necessary to bring pests under adequate control. 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 local experience. Buffer spray water to pH 5-7, if necessary. 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-repellant to honeybees. Treat during non-foraging periods to minimize adverse effects.

For best results under varying conditions, a range of use rates is recommended. The higher rates must be selected when pest pressure or damage potential is severe. The lower rates often give acceptable economic results. 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 mealy bugs.

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.

Recommended Application Rates

Crop	Pest	Amount YARDEX In Water To Make		Specific Directions
		100 Gal	5 Gal	
Landscape Ornamentials (including trees, shrubs, evergreens, flowers, foliage plants)	Aphids	4.0-10.0	0.2-0.5	Use sufficient water to thoroughly cover the foliage. Use lower rates for light to moderate insect pressure. Use higher rates for green peach aphids, unexposed thrips, and heavy pressure of other insects. <i>Mite suppression can be obtained using the lower rate. For more residual control use up to 10 fl oz/100 gal water.</i>
	Thrips	fl oz	fl oz	
	Mites		(1.33-3.0)	
	Whiteflies		teaspoons	
	Leaf-Feeding			
	Caterpillars			
	(i.e., Tent, Orlando, Gypsy			
	Moth, Bagworm, Canker Worm, etc.)			
	Lygus Plant Bugs			
	Beetles (Flea, Cucumber, Elm Leaf)			
Leafhoppers				

Crop	Pest	Amount YARDEX In Water To Make		Specific Directions
		100 Gal	5 Gal	
Woody and Herbaceous Ornamentials	Strawberry Root Weevils*			Apply spray on ground around base of tree or shrub and up main trunk or stem.
	Obscure Root Weevils*	6.4-10.0 fl oz	0.32-0.5 fl oz	
	Blackvine		1.66-3.0	
	Root Weevils*		teaspoons)	
Eugenia and Pepper Tree	Psyllids	5.0-10.0		Apply 5-10 fl oz of YARDEX per 100 gallons of water to protect new foliage, depending on pest pressure. If pruning is needed, prune the entire hedge then delay application until adults and new shoots are present. Apply second application at 1 month interval under heavy reinfestation pressure and if new foliage is present.

* Except in California

Crop	Pest	Amount YARDEX Per		Specific Directions
		1000 Ft. ²	Acre	
Landscape & Recreational	Chinch Bug	0.11-0.23	5.0-10.0	Use sufficient water to penetrate to pest.
Turfgrass (including home lawns, business & office complexes, shopping complexes, multifamily residential complexes, airports, cemeteries, parks, playgrounds, & athletic fields, & other landscape turfgrass)	Earwig*	fl oz	fl oz	
	Ticks	(0.73-1.45		
	Ants*	teaspoons)		Use lower rates for thatch inhabitants, such as, fleas, ticks, and chiggers.
	Lawn Moths (Sod Webworms)			Repeat application in 10 days.
	Bermuda Mites*			
	Crickets*			
	Armyworms			
	Brown Dog Ticks			
	Chiggers*			Use medium rate for grassfeeders, such as sod webworms, Bermuda mites, chinch bugs, armyworms.
	Clover Mites			
Cutworms				
Fleas				
Leafhoppers				
Sowbugs*				
Millipedes*				
Springtails (Collembola)*			Use maximum rate for cutworms.	

* Except in California

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Wellmark International
Bensenville, IL 60106

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