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United States Environmental Protection Agency Washington, D.C. 20460

Office of Prevention, Pesticides and Toxic Substances

OCT 15 1993

Jeff W Popp SANDOZ AGRO, INC. 1300 EAST TOUHY AVENUE DES PLAINES IL 60018

Subject: Label Amendment Submission of 06/16/93

in Compliance with WPS Labeling Requirements

EPA Reg No. 55947-101

MAVRIK AQUAFLOW INSECTICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is accepted subject to the comments listed below.

Based on your certification, the Agency has accepted only those changes to your labeling which are necessary to comply with PR Notices 93-7 and 93-11, which reflect the WPS labeling requirements of 40 CFR part 156, subpart K. Any other labeling changes submitted in connection with this amendment application and not directly related to compliance with PR Notice 93-7 or 93-11 have neither been reviewed nor accepted by the Agency. If you wish to make any such changes, you must submit a separate amendment application proposing them. If your product registration is currently suspended, acceptance of this labeling amendment does not affect the suspension in any way.

A copy of your proposed labeling stamped "Accepted with comments" is attached. Make any required changes described in the attached and send three copies of final labeling as soon as it is available to:

Document Processing Desk (FIN-LABEL)

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Office of Pesticide Programs (H-7504C) U.S. Environmental Protection Agency 401 M Street SW Washington, DC 20460-0001

Hand or courier deliveries of final labels may be made to:

Document Processing Desk (FIN-LABEL) Room 266A Crystal Mall 2 1921 Jefferson Davis Highway Arlington, VA 22202

Please correct the typographical errors circled on the draft before printing final labeling.

In your final labeling the "Agricultural Use Requirements" text must be contained in a clearly separate box. This box may be set apart by a line, by another graphical device, by a different color background, or in any other way that clearly distinguishes it from surrounding text.

Sincerely,

James Tompkins, Deputy Chief Registration Support Branch Registration Division (7505W)

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MAVRIK AQUAFLOW®

INSECTICIDE

insecticide for use on indoor (including greenhouses) and outdoor ornamental plantings and plantscapes, turf, trees, shrubs and flower and foliage cuttings.

Recommended for Commercial Use

ACTIVE INGREDIENT:

(α <u>RS</u> ,2 <u>R</u>)-fluvalinate {(<u>RS</u>)-α-cyano-3-phenoxybenzyl (<u>R</u>)-2-{2-chloro-4-(trifluoromethyl)anilino}-3-methyl- butanoate}*
INERT INGREDIENTS:
MAVRIK AQUAFLOW [®] is a flowable formulation containing 2 pounds (α <u>RS,2R</u>)-fluvalinate per gallon (240 g/L).
*U.S. Pat. 4,260,633 and 4,411,912. MAVRIK AQUAFLOW® is a registered tradernark of Sandoz, Ltd.
EPA Registration No. 55947-101 EPA Est. No. 2724-TX-1

KEEP OUT OF REACH OF CHILDREN

CAUTION

See back panel for additional precautionary statements and first aid.

SHAKE WELL BEFORE USING

SANDOZ AGRO, INC. 1300 East Touhy Avenue Des Plaines, Illinois 60018

MADE IN U.S.A.

NET CONTENTS: 8 oz. (236.5 ml) 1 qt. (946 ml)

ACCEPTED
with COMMENTS
to EPA Letter Dates

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Under the Foderal Insecticities, Fundicide, and Redoutledde Ant as amended, for the particide registered under EPA Reg. No. 55 947-101

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

CAUTION

Avoid Breathing Spray Mist. Certain persons may be sensitive to MAVRIK AQUAFLOW fine spray particles. For indeer applications, persons other than applicator should not be present at time of application. Use a properly fitted NIOSH approved respirator for use with posticides to evoid potential irritation to nose and throat from fine spray particles. For sensitive persons using Mavrik Aquaflow outdoors, use a NIOSH approved filter mask respirator for duets and mists. Respiratory effects are temporary and will generally subside without medical treatment. Causes mild eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Wear rubber gloves while handling. Wear protective elething. Wash exposed skin with seap and water after handling and before eating. Wash contaminated elething with seap and water before reuse.

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 sieeve-to-face contact. Prior to exposure, or after washing, an application of corn oil may reduce these symptoms. Workers in frequent contact with treated foliage should wear light barrier gleves to reduce excess exposure.

STATEMENT OF PRACTICAL TREATMENT

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

if irritation persists.

IF INHALED: Remove victim to fresh air. Apply artificial respiration if indicated.

IF ON SKIN: Remove contaminated clothing and wash affected areas

with seap and water. Apply corn oil to affected area to relieve symptoms. Get medical attention if

irritation 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 Sandoz Agro, Inc. Phone Number (Collect) (708) 699-1616

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Chemica Presistant ploves, such as Elamer (Sinfrancio Senivirationer Zinfrancio Allima Rupper (E. 14 mills) of Neopherie Rubber (E.) Limits) of Polyvery Calonde (EVC) (E. 2 mills) Sinvigo (E.14 mills)

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Dust/misi filtering respirato/ (MSHAYNICS); approval number preix (C+2)(0)

Follow manufacturers instructions for deening/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, enclosed cabs, or sircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 470.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations: Users should:

- Wash hands before eating, drinking, chewing purit, using tobacco or using the tollet.
- Hemove clothing immediately if pesticide gets inside. Then wash thoroughly and out 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.

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ENVIRONMENTAL HAZARDS

This product is highly toxic to fish. For terrestial uses, 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 HAZARD

Do not use or store near heat or open ilame.

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 absorbant material. Do not use caustic agents.

DISPOSAL:

Wastes resulting from the use of MAVRIK AQUAFLOW may be disposed of on site or at any approved waste

disposal facility.

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.

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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:

Coveralis

Chemical-resistant gloves, such as Barrier Laminate or Bulyl Rubber (≥14 mils) or Nitrile Rubber (≥14 mils) or Neoprene Rubber (≥14 mils) or Polyvinyl Chloride (PVC) (≤14 mils) or Viton (≥14 mils).

Ess Bhoes 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 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 cristress.

For end use only. Do not repackage or reformulate without manufacturer's written approval. See accompanying product information brochure for pests, rates and use directions.

GENERAL DIRECTIONS

MAVRIK AQUAFLOW INSECTICIDE 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 suseptable 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 a specific acaricide such as PENTAC® Miticide 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, white flies, aphids, thrips and mealy bugs.

Consult your local Extension office, Pest management consultant or a Sandoz specialist for guidance in selecting a rate and timing schedule or tank mix combination that has demonstrated good performance under specific conditions.

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RECOMMENDED APPLICATION RATES

CROP	PEST	AMOUNT MAVRIK IN WATER TO MAKE		SPECIFIC DIRECTIONS
Poliage, flowering plants, woody and herbaceous ornamen conifers (includin Christmas Trees, strees and non-food bedding plants)	g Whiteflies hade Leaf-Peedir	ers at, pypsy orm, m, etc.) bugs elm, elm leaf	5 Gals. 0.2-0.5 Fl.Os. (1.33-3.0 teaspoons)	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 gals. water. For maximum effect tankmix with Pentac Aquaflowe. For broadcast treatment use the rate of 5 fl.oz. MAVRIK per acre.
residential woody and herba- ceous ornamentals	Strawberry root weevils Obscure root weevils Blackvine root weevils	100 Gals. 6.4-10.0 Fl.Oz.	5 Gals. 0.32-0.5 Fl.Oz. (1.66-3.0 teaspoons)	Apply spray on ground around base of tree or shrub and up main trunk or stem.
	Mealybugs Aphids Two-spotted spider mites	100 Gals. 5.0 Fl.Oz.	5 Gals. 0.24 F1.0z. (1.5 teaspoons)	Immerse basket of cuttings into a diluted solution of MAVRIK until thoroughly wet (usually 1 minute or less).

MAVRIK AQUAFLONO LABEL - RECOMMENDATION FOR USE

CROP	PEST	AMOUNT MAVRIK PER		SPECIFIC DIRECTIONS
	FAUL	1.000 Ft.2	<u>Acre</u>	DARBUILDAS
Commercial & residential Turf	Chinch Bug Earwig Ticks	0.11-0.23 Fl.Oz. (0.73-1.45	5.0-10.0 Fl.oz.	Use sufficient water to penetrate to pest.
	Ants teaspoons) Lawn Hoths (Sod Webworms) Bermuda Hites Crickets Armyworms Brown Dog Ticks Chiggers			Use lower rates for thatch inhabitors. such as, fleas, ticks and chiggers. Repeat application in 10 days.
	Clover Mite Cutworms Fleas Leafhoppers Sowbugs Millipedes			Use medium rate for <u>grassfeeders</u> , such as sod webworms, Bermuda mites, chinch bugs, army worms. Use maximum rate for cutworms.

LIMITED WARRANTY AND LIABILITY

Notice: Read this limited Warranty and Liability before buying or using this product. If terms are not acceptable, return it at once, unopened.

It is critical that this product be used and mixed only as specified on the label. The laws of a State may make some or all of this paragraph inapplicable or may give you rights in addition to your rights hereunder. Except to the extent prohibited by applicable law, the exclusive remedy of the user or buyer and the limit of liability of this Company or any other Seller for any and all losses, personal injuries or damages resulting from the use of this product, shall be the purchase price paid by the user or buyer Except to the extent for the quantity of product involved. prohibited by State Law, there is no warranty and this Company and other Sellers disclaim all liability for losses, personal injury or damages; (i) arising from any use of this product in a manner or for a purpose not recommended it its label directions, or from mixing this product before use with any substance except as recommended by the product's label; (ii) arising from handling or storage in violation of label instructions; (iii) for all indirect, special or consequential damages; and (iv) when not reported to this Company within one year of discovery. There are no implied warranties and no warranties of merchant-ability or fitness.