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618-97

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ACCEPTED

JUN 15 1993

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. **618-97**

Restricted Use Pesticide

Toxic to Fish, Mammals, and Aquatic Organisms

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Zephyr[®] 0.15 EC

miticide/insecticide

ACTIVE INGREDIENT
 Avermectin B₁ [A mixture of avermectins containing > 80% avermectin B_{1a} (5-O-demethyl avermectin A_{1a}) and ≤ 20% avermectin B_{1b} (5-O-demethyl-25-de (1-methylpropyl)-25-(1-methyltetrahy) avermectin A_{1a})] 1.9%
INERT INGREDIENTS 98.1%
 * 1 gallon contains 0.15 pound avermectin B₁

**KEEP OUT OF
 REACH OF CHILDREN
 WARNING**

PRECAUCION AL USUARIO Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicada completamente.
 See Back Label for Additional Precautionary Statements and Statement of Practical Treatment

EPA EST NO. 385-D-TX-1
 EPA REG NO. 618-97



Product **68824A**

Merck & Co., Inc.
 Rahway, New Jersey 07065-0812 U.S.A.
ZEPHYR REG TM MERCK & CO., INC.
 FOR LOT NUMBER SEE BOTTOM OF BOTTLE ▼

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 Made in U.S.A.
 U.S. Pat. 4,310,519

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

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if inhaled or absorbed through the skin. Do not breathe spray mist. May be fatal if swallowed. Avoid contact with skin. Wear protective clothing including long sleeve shirt, long trousers, rubber gloves, and goggles or face shield when mixing and loading. During spray application, wear long sleeve shirt, long trousers, and rubber gloves. Remove any contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling, before eating, drinking or using tobacco. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

STATEMENT OF PRACTICAL TREATMENT

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

If swallowed: Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by gently touching the back of the throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

If on skin: Remove contaminated clothing and wash affected areas with soap and water. Get medical attention if irritation persists.

If in eyes: Flush eyes with plenty of water. Call a physician immediately.

Recommendations for Medical Treatment for Avermectin B_{1a} Acute Toxicity

Early signs of intoxication include mydriasis (dilated pupils), ataxia (unsteadiness) and muscle tremors. Toxicity following accidental ingestion of the concentrate can be minimized by inducing vomiting within one half hour of exposure.

If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels) as indicated by clinical signs, symptoms and measurements.

In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since avermectin B_{1a} is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic avermectin B_{1a} exposure.

For 24-hour emergency information, call (908) 750-2380.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from target areas. Do not contaminate water when using equipment, wash water, or rinsate.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

REENTRY STATEMENT

Do not reenter treated areas until sprays have dried.

PHYSICAL/CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal (U.S.A.) law to use this product in a manner inconsistent with its labeling.

COTTON: ZEPHYR® 0.15 EC is an emulsifiable concentrate containing 0.15 lb avermectin B_{1a} per gallon which, when mixed with water according to the Directions for Use, will control Spider mites (twospotted, carmine, Pacific and Strawberry) on cotton.

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For control of spider mites on cotton, mix with water and apply at the rates given in the following table

Spider Mites	Fluid Ounces Per Acre	
	Mid season/Lay-by	Early Season (California only)
Twospotted Carmine	8 - 16	4 - 6
Pacific Strawberry		

Use 8 - 16 fl oz ZEPHYR per acre depending on size of the plant and density of the foliage. Apply with ground sprayers or aerially by fixed-wing aircraft or helicopter in a minimum of 5 gallons of water per acre to provide thorough coverage. Begin application when mites are first noticed and repeat if necessary.

For use on early season cotton within the state of California, apply prior to June 15 on cotton under 10 inches in height. Apply at a rate of 4 - 6 fl oz ZEPHYR per acre by ground equipment only.

USE RESTRICTIONS

- Do not apply more than 32 fl oz or more than two applications of ZEPHYR per acre in any growing season.
- Do not apply within 21 days of last treatment.
- Do not apply this product east of the Mississippi River.
- Do not apply within 20 days of harvest.
- Do not graze or feed cotton foliage.
- Do not apply this product through any type of irrigation system.

STORAGE AND DISPOSAL

Storage: Store in a tightly closed container in a cool, dry place.

Prohibitions: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

Pesticide Disposal: Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or burned in a safe place away from water supplies. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal (U.S.A.) law. If these wastes cannot be disposed of by the user according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Triple rinse (or equivalent) and dispose in an incinerator or landfill approved for pesticide containers.

CONDITIONS OF SALE AND WARRANTY

Notice of Warranty: The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of MERCK or the Seller. Treatment may not be effective if tolerant strains of spider mites develop. Use of alternate treatments should be considered if treatment with ZEPHYR proves ineffective. All such risks of use shall be assumed by the buyer.

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



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