Re-	# 618-97	PM - 13	/ 0	1
	INTAL PROTECTION AGENCY PESTICIDES PROGRAMS	EPA REGISTRATION NO. 618-97	APR 1 1992	
REGISTRA	TION DIVISION (75-767) IINGTON, DC 20460	TERM OF ISSUANCE EXPIRES APRIL 30,	1995	
NOTICE OF PES	TICIDE: REGISTRATION	NAME OF PESTICIDE PRODUC		
	eral Insecticide, Fungicide, icide Act, as amended)	ZEPHYR 0.15 EC Miticide/Insect	icide	
AME AND ADDRESS OF	REGISTRANT (Include ZIP code)	· · · · · · · · · · · · · · · · · · ·		
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MERCK HILLS	& COMPANY, INC. SHARP & DOHME RESEAR BOROUGH ROAD BRIDGES, NEW JERSEY	CH LABORATORIES 08887	331 1541547	
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ubmitted to and accept	ling formula differing in substance f ted by the Registration Division prio the above U.S. EPA registration num	r to use of the label in commerc		
	tion furnished by the registrant, the , Fungicide, and Rodenticide Act.	above named pesticide is hereb	y Registered/Reregistered un	der
copy of the labeling	accepted in connection with this Re	gistration/Reregistration is retu	rned herewith.	
cide in accordance wit act is not to be constru- y others. This	nent, the Administrator, on his motion the Act. The acceptance of any name and as giving the registrant a right to product is conditiona	ime in connection with the registo exclusive use of the name or the second seco	tration of a product under this o its use if it has been covere	5
FIFRA sect	ion 3(c)(7)(B) since	you agreed to:		
for r secti	ubmit and/or cite all egistration/reregistr on 3(c)(5) or FIFRA s egistrants of similar	ation of your produ ection 4 when the A	ct under FIFRA gency requires	
for a a wri throu be va	ithin 30-days of rece n aquatic <u>mesocosm st</u> tten unconditional co gh completion. For a lid it must be agreed oned 30-day period.	udy (GRN 72-7) prov mmitment to conduct ny modification of	ide the Agency the study the protocol to	
3).	Initiate the in-life	phase of study on A	pril 30, 1992,	
4). Submit the first progress report by November 3, 1992, and the second progress report by August 21, 1993,				
5).	Submit the final stud	y by <u>October 31, 19</u>	94.	
	this study was originate			
	xtension to April 30,	1994 because of th		
ATTACHMENT IS AP		1994 because of th		
	PLICABLE	1994 because of th	PALE ADU 1, 1997	

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in responding to your waiver request. You are now requesting a six month extension for the submission of this study based upon the time needed by your contractor to format and finalize this voluminous report. We are granting the extension for this short period of time. Please note that we will grant no further extension for submission of this study.

6). Make the following label changes before you release the product for shipment:

a. Add the following minimum interval (between treatment) treatment statement to label, "Do not apply within 21 days of last treatment."

b. Revise the statement regarding the total amount of ai/acre/year to read, "Do not apply more than 32 fl oz per acre in any growing season".

c. In the environmental hazard section, revise the statement pertaining to wetlands to read as follows:

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.

d. Add the statement, "Do not use this product east of the Mississippi River.

7). Submit product information (pounds or gallons produced) for this product for the fiscal year in which the use on <u>cotton</u> is conditionally registered, in accordance with **FIFRA B**ection 29. The fiscal year begins October 1, and ends September 30.

This information is to be submitted to:

Environmental Protection Agency Registration Support Branch Registration Division (H7505C) 401 M Street SW Washington, DC 20460

The conditional registration will be subject to an expiration date of <u>April 30, 1995</u>. Such expiration will occur automatically notwithstanding the fulfillment of any conditions set forth in this letter and expiration will not give rise to hearing rights pursuant to FIFRA Section 6(e). We are issuing this new conditional registration for this additional period of time to allow you sufficient time to conduct this study in accordance with the EPA approved protocol. We concluded that based upon your proposed label restrictions to reduce exposure including a reduction in the total seasonal amount of abamectin active ingredient, continued use of avermectin for this period of time will not cause a significant increase in the risk of adverse effects to the environment. Upon completion of review of the mesocosm study and all other available data the Agency will decide whether this product could be registered under FIFRA Section 3(c)(5) or if other regulatory action is warranted.

As you know the current tolerances for avermectin  $B_1$  and its delta-8,9-isomer are due to expire <u>March 31, 1993</u>. By a separate action, the tolerances authorizing residues of the subject product on <u>cotton</u> will be extended to April 30, 1996. After that date sale or distribution of food in interstate commerce containing any residues of the subject product will be a violation of the Federal Food Drug and Cosmetic Act.

YOU SHOULD KNOW THAT IF YOU FAIL TO SATISFY ANY OTHER CONDITIONS IMPOSED ON THIS REGISTRATION, E.G., YOU FAIL TO SUBMIT THE REQUIRED DATA BY THE SPECIFIED DEADLINES, OR THE DATA SUBMITTED WERE NOT GENERATED IN ACCORDANCE WITH THE GOOD LABORATORY PRACTICE STANDARDS (40 CFR PART 160) AND/OR THE EPA APPROVED PROTOCOL, EPA MAY ISSUE A NOTICE TO CANCEL THIS REGISTRATION UNDER FIFRA SECTION 6(E).

Submit five (5) copies of your final printed labeling before you release the product for shipment.

A stamped copy of the label has been enclosed for your records.

George T. LaRocca Product Manager (15) Insecticide-Rodenticide Branch Registration Division (H7505C)

Enclosure:



US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (7S-767) WASHINGTON. DC 20460	618-97 TERM OF ISSUANCE EXPIRES APRIL 30, 1995 NAME OF PESTICIDE PRODUCT
NOTICE OF PESTICIDE: REGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)	ZEPHYR 0.15 EC Miticide/Insecticide
And Rodenticide Act, as amenador NAME AND ADDRESS OF REGISTRANT (Include ZIP code)	

# MERCK & COMPANY, INC. MERCK SHARP & DOHNE RESEARCH LABORATORIES HILLSBOROUGH ROAD

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

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful it inhaled or absorbed through the skin. Do not breathe spray mist. Avoid contact with skin. May be fatal if swallowed. 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

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

If swattewed: 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 B1 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  $B_1$  is believed to enhance GABA activity in animals, it is probably wise to evoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic avermectin B1 exposure.

For emergency information, call Merck & Co , Inc. (215) 661-7300 during business hours (8.30 am to 4.30 pm EST) or (215) 661-5000 after hours or weekends

#### **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and wildlife. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not apply when weather conditions favor drift from target areas. Do not contaminate water when disposing of 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 werds 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 emutsifiable concentrate containing 0.15 lb avermectin B1 per gation 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 Dunces Por Acre
Twospetted Carmine	- 8 - 16
Pacific	• •
Strawberry	

Use 8 - 16 ft oz ZEPHYR per acre depending on size of the plant and density of the toliage. 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

## **USE RESTRICTIONS**

- Do not apply more than 48 ft oz ZEPHYR per acre per year.
- 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 buried 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.) faw. If these wastes cannot be disposed of by the use 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 malinar of use or application all of which are beyond the control of MSD AGVET or the Selfer ineatment may not be effective if tolerant strains of spider-mikes 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.

MSD AGVET warrants that this product conforms to the chemical description on the label and is reasonably fit to the surposes referred to in the **Directions** for Use subject to the inherent risks referited to above Guyer assumes all risks of use or handling which are at variance, in any rate to above buyer assumes an insta of use makes no other express or implied warranty of Fitness or Morchantability or any other express or implied warranty, ar we case shall MSD AGVET or the Selfer be liable for consequential, special or indirect dameges resulting from the use or handling of this product. MSD AGVET and the Selfer offer this product and the human and used around it subject to the forenzion. buyer and user accept if, subject to the foregoing Netlice of Warranty which may be varied only by agreement in writing signed by a diffy nuthorized representative of MSD AGVET

# PEST AVAILABLE COPY

SIGNATURE OF APPROVING OFFICIAL

EPA F ---- 8570-6 (Rev. 4-76)

PREVIOUS EDITION MAY BE USED UNTIL SUPPLY IS T XHAUSTED. +U S. GPO: 1992-312-018/603 -3