



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

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: EPA Reg. No./File Symbol 618-9196
Zephyr 0.15 EC

FROM: Lucy D. Markarian ^{12/20/90}
Precautionary Review Section
Registration Support Branch
Registration Division (H75-05C)

TO: George La Rocca (PM 15)
Registration Division (H75-05C)

APPLICANT: Merck, Sharp & Dohme Research Laboratories
Hillsborough Road, Three Bridges
New Jersey 08887

FORMULATION FROM LABEL:

Active Ingredient(s):	% by wt.
<u>Avermectin B₁ [A mixture of avermectins containing</u>	<u>2.0%</u>
<u>80% Avermectin B_{1a} (5-O-demethyl avermectin A_{1a} and</u>	
<u>20% Avermectin B_{1b} (5-O-demethyl-26-O-(1-methylpropyl)-26-</u>	
<u>(1-methylethyl) avermectin A_{1a})]</u>	
<u>Inert Ingredient(s):</u>	<u>98%</u>
Total	100.0%

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Merck Sharp and Dohme Research has forwarded Published articles in Acute oral, Eye and Dermal irritation and Acute Dermal Toxicity of [REDACTED]. Included in the [REDACTED] That Merck is proposing to use to replace approximately [REDACTED] of the inert [REDACTED] currently used in Three of Their formulations: Avid (EPA 618-96), Zephyr (EPA 618-97), and Agri-Mek (EPA 618-98). All Three are identical in composition

The proposed change will replace [REDACTED] and increase [REDACTED]. The original Toxicity data (EPA 618-96) was reviewed by W. Dykstra, and carried the signal word "Caution". On 3/15/89 a new eye study was presented and again reviewed by W. Dykstra and the eye toxicity category was changed from III to II with the resultant change in the signal word from "Caution" to "Warning". As it stands now the toxicity classification is as follows:

Acute Oral LD ₅₀	Greater Than 5.0 g/kg	IV
Acute dermal LD ₅₀	Greater Than 2000 mg/kg	III
Acute Inhalation LD ₅₀	Greater Than 1.062 ml/L	III
Primary eye Irritation	Corneal opacity cleared by day 14	II
Primary dermal irritation	eye irritant moderate irritation cleared by day 7	III
Not a sensitizer.		