US EPA ARCHIVE DOCUMENT

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

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: EPA Reg. No./File Symbol 618-94 94
Zephyr 0.15 EC

FROM: Lucy D. Markarian 12/20/90
Precautionary Review Section E 1/15/91
Registration Support Branch
Registration Division (H75-05C)

TO: George LaRocca (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.
Avermectin B_1 [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-methylethyl) avermektin A_{1a})]	2.0%
Inert Ingredient(s):	98%
Total	100.0%

Merck Sharp and Dohme Research has forwarded Published articles on 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 [redacted]

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 catagory 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 LC_{50}	Greater Than 1.062 ml/L	III
Primary eye Irritation	Corneal opacity clear by day 14 eye irritant	II
Primary dermal irritation	moderate irritation cleared by day 7	III

Not a sensitizer.

INERT INGREDIENT INFORMATION IS NOT INCLUDED