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CASWELL FILE

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

APR 10 1987

MEMORANDUM:

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

SUBJECT: Avermectin (Abamectin); PP#7G3468/7H5518; Avermectin in/on Citrus; Risk Assessment for Harvestors Reentering Ornamental Field/Greenhouses Treated with Avid 0.15EC

Caswell No. 63AB
Record No. 190395/190398
Project No. 7-0469

TO: George LaRocca
Product Manager 15
Registration Division, TS-767
and
Exposure Assessment Branch
Hazard Evaluation Division, TS-769

THRU: Edwin Budd, Section Head
Review Section II
Toxicology Branch
Hazard Evaluation Division, TS-769

Budd 4/1/87

FROM: William Dykstra
Toxicology Branch
Hazard Evaluation Division, TS-769

William Dykstra 3/23/87
Hancock 4/10/87

Requested Action:

Review attached information.

Conclusions and Recommendations:

1. TB will determine the margins of safety to harvesters (pickers) based on EAB exposure estimates determined from the submitted dislogdebable residue data.

2. TB requests that EAB determine exposure to dislodgeable residues from the submitted data.

Review:

1. No new toxicity data were presented.

SECTION [illegible]

Attachment

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

DEC 12 1986

MEMORANDUM:

OFFICE OF PESTICIDES AND TOXIC SUBSTANCES

SUBJECT: Plant Metabolite and Photodegradant of Abamectin; Delta 8.9-isomer of Abamectin Found in Citrus

Caswell No. 63AB

TO: George LaRocca
Product Manager (15)
Registration Division (TS-767)
and
Exposure Assessment Branch
Hazard Evaluation Division (TS-769)

THRU: Edwin Budd, Section Head
Review Section II
Toxicology Branch
Hazard Evaluation Division (TS-769)

FROM: William Dykstra
Toxicology Branch
Hazard Evaluation Division (TS-769)

During the current review of the use of abamectin on citrus (PP#7G3468/7H5518), the registant has identified a plant metabolite which forms from photodegradation on citrus. This plant metabolite is the delta-8,9 isomer of abamectin. The mouse oral LD_{50} is greater than 80 mg/kg. However, delta-8,9 isomer of abamectin has a NOEL for teratogenicity in mice at 0.06 mg/kg. The NOEL for maternotoxicity in mice is 0.1 mg/kg.

Toxicology Branch requires that the registrant determine if and at what levels the delta-8,9 isomer of abamectin is formed on ornamentals from use of Avid® and in the environment (grass, etc.) from the use of Affirm® in the treatment of fire ants. Additionally, margins of safety calculations would be required to be submitted for these uses and all future uses.

Toxicology Branch is requiring additional toxicological evaluation of the delta-8,9 isomer in the citrus petition.

EAB should be made aware that we are concerned about potenial human exposure to this photodegradate.

Avermectin toxicology review

Page _____ is not included in this copy.

Pages 2 through 15 are not included in this copy.

The material not included contains the following type of information:

___ Identity of product inert ingredients

___ Identity of product impurities

___ Description of the product manufacturing process

___ Description of product quality control procedures

___ Identity of the source of product ingredients

___ Sales or other commercial/financial information

___ A draft product label

___ The product confidential statement of formula

___ Information about a pending registration action

X FIFRA registration data

___ The document is a duplicate of page(s) _____

___ The document is not responsive to the request

The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.
