122804

Shaughnessy No.: 122804

Date Out of EAB: JAN 02 1986

To: G. LaRocca
Product Manager 15
Registration Division (TS-767)

From: Samuel M. Creeger, Chief
Review Section #1
Exposure Assessment Branch
Hazard Evaluation Division (TS-769)

Attached, please find the EAB review of...

Reg./File # : 50658-EUP-E

Chemical Name: Avermectin

Type Product : Insecticide

Product Name :

Company Name : Merck

Purpose : EUP for use on cotton

Date Received: 11/26/85

Date Completed: JAN 02 1986

Action Code(s): 710

EAB #(s) : 6160

days: 0.25

Deferrals to: ____ Ecological Effects Branch

____ Residue Chemistry Branch

____ Toxicology Branch

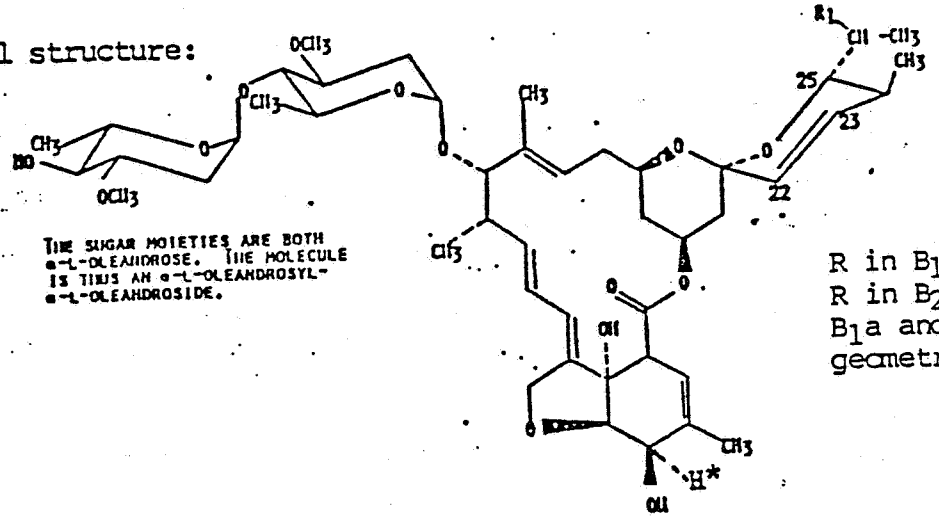
Monitoring study requested by EAB: /__/

Monitering study voluntarily conducted by registrant: /__/

1.a CHEMICAL:

Avermectin B_1a
Abamectin.

Chemical structure:



R in B_1 = Ethyl
R in B_2 = Methyl
B_1a and B_1b are geometric isomers

The active ingredient is composed of not less than 80% avermectin B_1a and not more than 20% avermectin B_1b.

1.b Physical Properties:

See earlier reports.

2. TEST MATERIAL: Not Applicable.

3. STUDY/ACTION TYPE:

EUP for use on cotton.

4. STUDY IDENTIFICATION: Not Applicable.

5. REVIEWED BY:

Akiva D. Abramovitch, Ph.D.
Chemist
Environmental Chemistry Review Section 1/EAB/HED/OPP

Abramovitch
Date: JAN 02 1986

6. APPROVED BY:

Samuel M. Creeger, Chief
Supervisory Chemist
Environmental Chemistry Review Section 1/EAB/HED/OPP

Samuel M Creeger
Date: JAN 02 1986

7. CONCLUSIONS: N/A , see section 8.

8. RECOMMENDATIONS:

All the environmental fate data requirements for this EUP have been fulfilled (see recent EAB reviews of 8/28/85, 9/9/85, 9/10/85 and 11/4/85 with regard for use as a Fire Ant Insecticide AFFIRM™).

However, for the purpose of this cotton EUP, a field dissipation study on cotton is not required but will be required for registration.

We do not see the need to test the product on 5000 acres. For EAB purposes, an EUP of such magnitude is not necessary and less than 100 acres would be adaquate to gather the field dissipation data needed to support registration on cotton.

9. BACKGROUND:

A. Introduction: Merck satisfied all the data requirements for registration of Abamectin for use in AFFIRM as a Fire Ant Insecticide. The present submission is for an EUP on cotton. The request is for spraying 187.5 pounds of Abamectin on 4000 acres in 14 states (0.02 lb/acre/application).

B. Directions for Use: Please see attached copy of the proposed label. Each gallon contains 0.15 pounds of the active ingredient abamectin (2%). The proposed use is for 0.02 pounds per acre (per application?) for a maximum of three applications per year.

10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES: No new data submitted-see recommendation in section 8, above.

11. COMPLETION OF ONE LINER:

A one-liner has not been initiated.

12. CBI APPENDIX:

None.

Avermectin science review

Page _____ is not included in this copy.

Pages 4 through 7 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

X A draft product label

___ The product confidential statement of formula

___ Information about a pending registration action

___ 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.