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

From: Samuël 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-1

Chemical Name: Avermectin

Type Product: Insecticide

Product Name:

Company Name: Merck

Purpose: Amend Citrus EUP

Action Code(s): 714

EAB #(s): 5846

Date Received: 8/13/85

TAIS Code:

Date Completed: SEP 10 1985

Total Reviewing Time: 0.25 days

Deferrals to:  

Ecological Effects Branch

Residue Chemistry Branch

Toxicology Branch
Avermectin B₁a
Abamectin.

The active ingredient is composed of not less than 80% avermectin B₁a and not more than 20% avermectin B₁b.

1.b Physical Properties:
See earlier reports.

2. TEST MATERIAL: Not Applicable

3. STUDY/ACTION TYPE:
Amend Citrus BUP—see introduction in section 9.

4. STUDY IDENTIFICATION: Not Applicable

5. REVIEWED BY:
Akiva D. Abramovitch, Ph.D.
Chemist
Environment Chemical Review Section 1/EAB/HED/OPP

6. APPROVED BY:
Samuel M. Creeger, Chief
Supervisory Chemist
Environment Chemical Review Section 1/EAB/HED/OPP

7. CONCLUSIONS: Not Applicable
8. **RECOMMENDATIONS:**

Acceptance of the field dissipation study would fulfill the EAB data requirement for registration for use as a Fire Ant Insecticide (AFFIRM™). To be accepted, the registrant must provide the characteristics of the Lufkin fine sandy soil used in the study (see recent review of 9/5/85 concerning AFFIRM™ Fire Ant Insecticide.

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

We do not see the need to test 2000 gallons of product on 4000 acres. For EAB purposes, an EUP of such magnitude is not necessary and less than 100 acres would be adequate to gather the field dissipation data needed to support registration on Florida citrus.

9. **BACKGROUND:**

A. **Introduction:** Merck is requesting to amend the current EUP (50658-EUP-1) for the evaluation of abamectin in a 0.15 lb a.i./gallon Emulsifiable Concentrate Formulation as a Citrus Miticide. The request is for an additional 4000 acres and 2000 gallons of the 0.15 a.i./gallon formulation. The original EUP was considered in the March 28, 1984 evaluation.

B. **Directions for Use:** Please see attached copy of the proposed label.

10. **DISCUSSION OF INDIVIDUAL TESTS OR STUDIES:** No new data submitted—see recommendation in section 8.

10.1 A. **Study Identification:** N/A

B. **Materials and Methods:**

C. **Reported Results:**

D. **Study Author's Conclusions:**

E. **Reviewer's Discussions and Interpretation of Study Results:**

11. **COMPLETION OF ONE LINER:**

Not completed.

12. **CBI APPENDIX:**

None
Avermectin science review

Page ___ is not included in this copy.
Pages 4 through 8 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
___ PIFRA 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.