Shaughnessy No.: 122804
Date Out of EAB: JUN 06 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 # : 619-96
Chemical Name: Avermectin
Type Product: Insecticide
Product Name: AVID
Company Name: Merck
Purpose : Registration on flower crop

Date Received: 05/19/86
Date Completed: JUN 06 1986
Action Code(s): 300
EAB #(s): 6643
days: 0.25

Deferrals to: Ecological Effects Branch
             Residue Chemistry Branch
             Toxicology Branch

Monitoring study requested by EAB: 
Monitoring study voluntarily conducted by registrant: 

/
1. **CHEMICAL:**

Avermectin B1a
Abamectin

AVID

See chemical structure in earlier EAB review of 9/05/85 and previous reviews.

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:**

Response to EAB request for additional information with regard to the field dissipation study on AVID™.

4. **STUDY IDENTIFICATION:** Field Dissipation.

5. **REVIEWED BY:**

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

Date: JUN 06 1986

6. **APPROVED BY:**

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

Date: JUN 06 1986

7. **CONCLUSIONS:** The study is accepted in fulfillment of the field dissipation data requirement for AVID™ by submission of the soil characteristics (attached). EAB request for submission of half life calculation remained unanswered and to avoid further delays the estimated half life of 3 days (EAB review of March 18, 1986) will be used.

8. **RECOMMENDATIONS:**

Acceptance of the field dissipation study fulfilled the EAB data requirements for registration for AVID™ for use in flower crops and foliage plants.

9. **BACKGROUND:**

A. **Introduction:** See EAB review of March 18, 1986.

B. **Directions for Use:** As in A, above.
10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES:

10.1 A. Study Identification: Abamectin Soil Dissipation in Flower Crop.

B. Materials and Methods:

The properties of the soil was submitted as requested in the EAB review of 3/18/86.

C. Reported Results: N/A See EAB review of 3/18/86.

D. Study Author's Conclusions: N/A See EAB review of 3/18/86.

E. Reviewer's Discussions and Interpretation of Study Results: N/A See EAB review of 3/18/86.

11. COMPLETION OF ONE LINER:

Not completed.

12. CBI APPENDIX:

None
Abamectin Soil Dissipation in 
Flower Crops

Report No. 001-84-008R 
(Addendum - Soil Composition)

Study submitted 8/14/85 in Application for Registration of AVID™. 
Section B Vol II, pages 1-41.

The soil used in this test is classified as St. Lucie fine sand (aged 
beach sand) which characteristically contains less than 0.5% organic 
matter. The soil at the test site was amended with German peat in 1985 
which raised the organic matter to 1.75%. The pH of the soil was 
maintained by using dolomitic limestone at 1000 lbs per acre each year.

St. Lucie sand contains no clay and for all practical purposes no silt. 
The low organic fraction is primarily from the German peat moss used to 
amend the soil.

Approved by:

Louis S. Gresso, Ph.D. 
Director, Regulatory Affairs 
Agricultural Research 
and Development

Richard A. Dybas, Ph.D. 
Senior Director 
Agricultural Research 
and Development

May 15, 1986

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