

Shaughnessy No.: 079401

Date Out of EAB: JAN 21 1987

To: George T. LaRocca
Product Manager #15
Registration Division (TS-767C)

From: Emil Regelman, Supervisory Chemist
Review Section #3
Exposure Assessment Branch
Hazard Evaluation Division (TS-769C)



Attached, please find the EAB review of...

Reg./File # : 8340-13
Chemical Name: Endosulfan
Type Product : Insecticide
Product Name : Thiodan Technical
Company Name : American Hoechst Corporation
Purpose : Additional information on endosulfan hydrolysis
and photodegradation studies.

ACTION CODE: 661 EAB #(s) : 60576
Date Received: 5/01/86 TAIS Code: 56
Date Completed: _____ Total Reviewing Time 2.0

Monitoring study requested: _____

Monitoring study voluntarily: _____

Deferrals to: _____ Ecological Effects Branch
_____ Residue Chemistry Branch
_____ Toxicology Branch

1. CHEMICAL: Endosulfan: 6,7,8,9,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide
2. TEST MATERIAL: N/A No new studies were submitted.
3. STUDY ACTION TYPE: Response to registration standard comments concerning hydrolysis and photodegradation on soil including information on soil characteristics.
4. STUDY IDENTIFICATION: Letter from American Hoechst Corporation dated January 9, 1985. Accession Number 258496.
5. REVIEWED BY:

Arthur Schlosser
Chemist
EAB/HED/OPP

Signature: Arthur C. Schlosser

Date: January 13, 1987
6. APPROVED BY:

Emil Regelman
Supervisory Chemist
Review Section #3, EAB/HED/OPP

Signature: E. Regelman

Date: JAN 21 1987
7. CONCLUSION: The registrant has not provided all of the information that was requested by EAB in the letter of September 21, 1984. Material balance data for the hydrolysis study and additional soil data are still needed. See Discussion, Section 10.
8. RECOMMENDATIONS: EAB requirements for additional data have not been fully satisfied. Material balance data for the hydrolysis study at pH 7 for each sample taken during the study are still required. Adequate qualitative and quantitative data cannot be found in the original study as was suggested by the registrant. To support the photodegradation study the following information is still required: percent soil organic matter and soil pH.

9. BACKGROUND: In comment letter on the registration standard dated September 21, 1984, EAB requested material balance data for the hydrolysis study done at pH 7 and for additional information on the characteristics of the soil used in the study of photo-degradation on soil.

10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES: (1) Hydrolysis: The registrant states that the material balance data in question can be found in the data originally submitted. These data indicate only qualitatively the apparent final hydrolysis product (endosulfan diol). No other products are identified and no quantitative data are given as required. (2) Photolysis: The registrant provided some of the soil data that were requested, however, percent organic matter and soil pH were not given. This information is still required.

11. COMPLETION OF ONE-LINER: Not applicable.

12. CBI APPENDIX: Material contained in this report appear to be CBI and should be treated as such.