

US EPA ARCHIVE DOCUMENT

3/19/79

Date Out EFB:

To: Product Manager Jacoby (21)
TS-767

Through: Dr. Gunter Zweig, Chief
Environmental Fate Branch

From: Review Section No. 1 *R. J. Fey*
Environmental Fate Branch

Attached please find the environmental fate review of:

Reg./File No.: 618-75

Chemical: Thiabendazole

Type Product: _____

Product Name: _____

Company Name: Merck Sharp and Dohme

Submission Purpose: Protocols

ZBB Code: 111E

Date in: 1/8/79

Date Completed: 3/19/79

Deferrals To:

/ / Ecological Effects Branch

/ / Residue Chemistry Branch

/ / Toxicology Branch

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1. Introduction

MERCK and Company, Inc. will propose a new use of MERTECT-340F on growing rice. To assess the environmental hazards associated with such use, MERCK has submitted (letter of 12/7/78) for review the following protocols per EFB meeting of 9/19/78:

1. An anaerobic aquatic metabolism lab study - "Thiabendazole (TBZ) Anaerobic Aquatic Metabolism",
2. A water dispersal study - "Thiabendazole - Water Dispersal from Rice Paddies," the protocol for this study is combined with the field dissipation study protocol,
3. An adsorption/absorption lab study - "Partition of Radiolabeled Thiabendazole between Water and Soil Sediments" ,
4. A field dissipation study - "Thiabendazole Combined Field Dissipation and Water Dispersal from Rice Paddies",
5. Accumulation Studies
 - a) For rotational and irrigated crop studies, MERCK has elected to satisfy the requirements by the appropriate label statement and restrictions.
 - b) The catfish study, which is on file, is satisfactory. And,
6. Special studies - A residue lab study in crayfish - "Bioaccumulation and Dissipation of Radiolabeled Thiabendazole in Crayfish" .

2.0 Recommendation

- 2.1 All the submitted protocols are acceptable.
- 2.2 We note that an aerobic soil metabolism study has been previously submitted, therefore, the aerobic aquatic metabolism is not needed.

Ronald E. Nye
Madeline Nawar
Review Section 1
3/19/79

Madeline Nawar 3/22/79

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