

US EPA ARCHIVE DOCUMENT

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Shaughnessey No. 081301

Date Out EFB: 04 JAN 1984

To: Jacoby
Product Manager 21
Registration Division (TS-767)

From: Samuel Creeger, Chief *SC*
Review Section No. 1
Exposure Assessment Branch
Hazard Evaluation Division (TS-769)

Attached please find the environmental fate review of:

Reg./File No: 239-1246 239-2351

Chemical: Captan

Type Product: Fungicide

Product Name: Orthocide

Company Name: Chevron

Submission Purpose: label amendment

ZBB Code: other

ACTION CODE: 450-400

Date in: 10/11/83

EFB # 4007-08

Date completed: 1/4/84

Tais (level II) Days

63/64

2.50

Deferrals To:

 Ecological Effects Branch

 Residue Chemistry Branch

 Toxicology Branch

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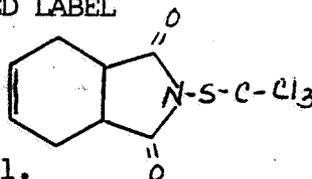
1.0 INTRODUCTION

Chevron Chemical Company has submitted an application and data in support of a label ammendment for ORTHOCIDE 65 Seed Protectant and product chemistry data to support four alternate formulas.

A list of data citations which have been submitted by Chevron to the agency to satisfy data requirements and open literature citations which are deemed by Chevron to satisfy data requirements also accompanys the submission.

2.0 CHEMICAL STRUCTURE AND PROPOSED LABEL

Chemical Structure:



See the attached proposed label.

3.0 DISCUSSION OF DATA

- 3.1 The Anaerobic Soil Metabolism of [Carbonyl-¹⁴C] Captan, D.E. Pack. Chevron Chemical Company. File No. 721.14, September 14, 1979. Acc Nos. 251400 and 251403.

This study has been previously reviewed (3/24/80 and 2/21/80) and found to be acceptable for seed treatment only.

- 3.2 Environmental Fate Data Requirements 158.130. Data citations for Captan. Chevron Chemical Company. September 28, 1983.

As far as can be determined from the EAB files, the open literature citations were never submitted for review except by reference and the Chevron company studies were reviewed. The only study which has been accepted to date as satisfying any EAB data requirement is the one which accompanys this submission and is reviewed in 3.1 above.

4.0 CONCLUSIONS

Although captan has registered uses, a review of the EAB files shows that the only data requirement which has been completely satisfied is anaerobic soil metabolism (satisfied for seed treatment only). There are numerous references in the files to open literature citations, but none of these have been submitted to the EAB for review. An hydrolysis study was rejected in our review of 11/22/77 because only a summary of the cited paper was submitted without any methodologies, material balances or mathematical calculations. An aerobic soil metabolism study was reviewed on 1/10/75 and found to be deficient because there was not an accounting for the ring portion of the molecule.

Even though a seed treatment is not a food use, the minimum EAB data requirements are a hydrolysis study and an aerobic soil metabolism study. It is not clear from the submission if this amendment is for new uses of captan or if it is for minor technical or administrative changes. In any case, EAB cannot concur with further uses of captan until these minimal data requirements are met.



* Norma Kay Whetzel
January 4, 1984
Review Section No. 1
Environmental Fate Branch
Hazard Evaluation Division

Captan Science Reviews

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 inert 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.
