

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: 7501-EUP-E

Chemical: Captan

Type Product: Fungicide

Product Name: Captan Seed Protectant

Company Name: Gustafson

Submission Purpose: use on corn, sorghum, and soybean seeds

ZBB Code: other

ACTION CODE: 740

Date in: 10/14/83

EFB # 4023

Date completed: 1/4/84

Tais (level II) Days

52

2.50

Deferrals To:

Ecological Effects Branch

Residue Chemistry Branch

Toxicology Branch

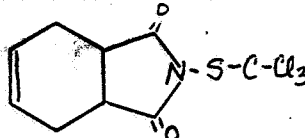
1.0 INTRODUCTION

Gustafson, Inc. has submitted an application for an Experimental Use Permit for the seed treatment of corn (field and sweet), sorghum, and soybeans with captan (N-(trichloromethylthio)-4-cyclohexene-1,2-dicarboximide). No environmental data were submitted.

The program would involve the use of 2100 lb ai used to treat 9,000 bushels each of sorghum and field and sweet corn seed and 8,500 bushels of soybeans at commercial seed treatment plants in Illinois, Indiana, Iowa, Nebraska, Ohio, and Texas.

2.0 CHEMICAL STRUCTURE AND PROPOSED USE PATTERN

Chemical Structure:

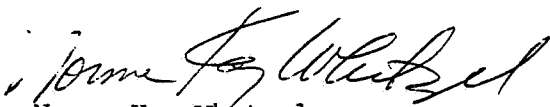


See the attached label for the proposed use pattern.

3.0 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 aquatic 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 data requirements for an EUP are a hydrolysis study and an aerobic soil metabolism study. 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 3 through 6 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.
