

US EPA ARCHIVE DOCUMENT

FILE COPY

Date Out EFB: 6/4/80

To: Product Manager Jacoby (PM 21)
TS-767

Through: Dr. Gunter Zweig, Chief
Environmental Fate Branch

Garner

From: Review Section No. 1
Environmental Fate Branch

III

Attached please find the environmental fate review of:

Reg./File No.: 677-EUP-RO

Chemical: Chlorothalonil

Type Product: F

Product Name: Bravo

Company Name: Diamond Shamrock

Submission Purpose: EUP to test chlorothalonil + benomyl on soybeans

ZBB Code: Sect 5

Action Code: 275

Date in: 5/5/80

EFB #445

Date Completed 6/5/80

Deferrals To:

Ecological Effects Branch

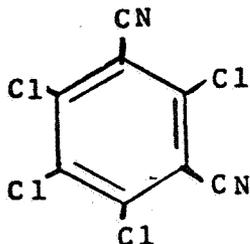
Residue Chemistry Branch

Toxicology Branch

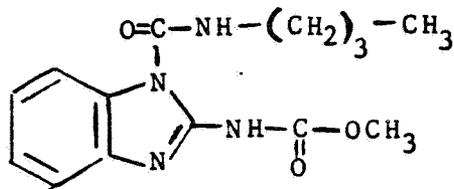
1.0 Introduction

The applicant has applied for an EUP for the use of a chlorothalonil/benomyl tank mix as a fungicidal treatment on soybeans.

1.1 Chlorothalonil = tetrachloroisophthalonitrile, Daconil 2787, Bravo 500



benomyl = (methyl-1-butylcarbamoyl)-2-benzimidazolecarbamate, Benlate



1.2 Percent active ingredient

Bravo 500:

Tetrachloroisophthalonitrile	40.4%
Inert ingredients	59.6%

Benlate 50W: The percent of active ingredient, (methyl-1-butylcarbamoyl)-2-benzimidazolecarbamate, in this product is not specified in the submission.

1.3 For use as a post-emergence fungicidal treatment on soybeans. A total of 245 gal of Bravo 500 (1022 lb ai) and 490 lb Benlate 50W will be shipped. A total of 1,120 acres will be treated in the following states: Alabama, Arkansas, Georgia, Illinois, Louisiana, Mississippi, and Texas. The program is proposed for the summer of 1980 and will last one year.

2.0 Directions for Use

2.1 The EUP is to determine efficacy of the combination. The following treatments are proposed. Bravo 500 - 1 pint per acre, Bravo 500 - 1.5 pint/acre, Bravo 500 - 2 pints per acre, Benlate 50W - 4.0 oz per acre, Benlate 50W - 6.0 oz per acre, Benlate 50W - 8.0 oz per acre, Bravo 1.0 pt + Benlate 4.0 oz per acre, Bravo 1.5 pt + Benlate 6.0 oz per acre. Make initial application at early pod set and repeat 14-21 days later.

2.2 Use Precautions

Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from the target area. All seed and crop residue derived from the experimental use of this product on soybean should be destroyed or used for seed purposes only.

3.0 Discussion of Data

Issuance of an EUP for terrestrial field crop use requires data on hydrolysis, aerobic soil metabolism, and rotational crop accumulation. No new data were submitted for review. There are no rotational crop data for chlorothalonil. Data on hydrolysis and rotational crop accumulation are lacking for benomyl. Review of previously submitted environmental chemistry data supports the EUP of the limited scope proposed.

4.0 Recommendations

4.1 We concur with the proposed EUP, provided an 18-month rotational crop restriction is observed.

4.2 All of the environmental chemistry data required by the Section 3 Regulations will be needed for both active ingredients at the time of registration.

Henry Appleton
Section #1
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Hazard Evaluation Division

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