FILE COPY

Data Out: EFB: 29 JUN 1981

TO: Product Manager 12 Ellenberger
TS-767

FROM: Willa Garner III
Chief, Review section No.1
Environmental Fate Branch

Attached please find the environmental fate review of:

Reg./File No.: 464-523

Chemical: Chlorpyrifos

Type Product: Insecticide

Product Name: Dursban

Company Name: DOW

Submission Purpose: Crop rotation protocol

ZBB Code: Other

Date in: 6/26/81

Date Completed: 29 JUN 1981

Deferrals To:

_____ Ecological Effect Branch

_____ Residue Chemistry Branch

_____ Toxicology Branch

ACTION CODE: 450

EFB # 877

TAIS (level II

67 1/2

1. INTRODUCTION

1.1 This is a review of a rotational crop protocol for chlorpyrifos.

2. COMMENTS

2.1 The submitted protocol is very general. Additional information and details are needed.

2.2 Provide exact dates of application, planting of treated and rotational crops and harvest of rotational crops.

2.3 Record climatological data (rainfall, cloud cover, temperature, ect.).

2.4 Provide soil analyses of the test plots (% sand, % silt, % clay, % organic matter, pH, cation exchange capacity and field moisture capacity at 1/3 bar). Are the test soils representative of the soils in the proposed use areas?

2.5 Include a leafy vegetable (lettuce or spinach, for example) as a rotational crop to be studied.

2.6 Are treatments A.1 and A.2 to be applied to different plots or are both treatments to be made to the same plot?

2.7 Be sure pesticide application and other cultural practices simulate actual use conditions.

2.8 Sample wheat at 1/4, 1/2 and full maturity.

2.9 The registrant many want to plant the rotational crops at more than one rotational interval after pesticide application. Note that no detectable residue (NDR) at a 6 month rotational interval does not mean there will necessarily be NDR at a less than orgreater that 6 month rotational interval.

2.10 Submit all raw data including recovery data and a complete description of the analytical methods used.

Samuel M Creeger

Samuel M. Creeger
June 29, 1981
Section #1/EFB
Hazard Evaluation Division

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