

US EPA ARCHIVE DOCUMENT

# FILE COPY

Date Out EFB: 13 JAN 1982

To: Product Manager 25 Ellenberger  
TS-767

From: Dr. Willa Garner <sup>11</sup>  
Chief, Review Section No. 1  
Environmental Fate Branch

Attached please find the environmental fate review of:

Reg./File No.: 464-448

Chemical: Chlorpyrifos

Type Product: Insecticide

Product Name: Dursban

Company Name: Dow

Submission Purpose: Protocol-field monitoring study

ZBB Code: other

ACTION CODE: 450

Date in: 1/11/82

EFB # 126

Date Completed: 13 JAN 1982

TAIS (level II)

Days

Deferrals To:

67

2

Ecological Effects Branch

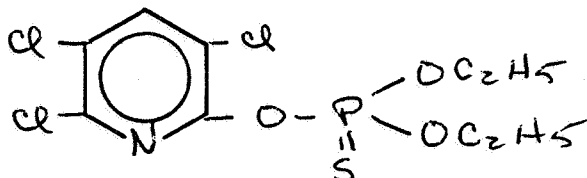
Residue Chemistry Branch

Toxicology Branch

## 1.0 INTRODUCTION

Dow has submitted a protocol to study the runoff potential of chlorpyrifos, granular and emulsifiable concentrate, into surface waters.

## 2.0 Chlorpyrifos: Dursban: Lorsban



0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl)-phosphorothioate

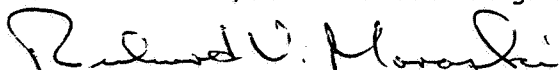
## 3.0 Discussion

According to the protocol, chlorpyrifos runoff potential will be studied at two locations. One site, to be studied in 1982, is in the midwestern corn growing region. The other site in the southeastern peanut growing region would be studied in 1983. The submitted protocol outline is attached.

## 4.0 RECOMMENDATIONS

EFB finds the protocol submitted to be generally acceptable. However, the following comments and recommendations are made concerning the section labeled "Sampling".

- ° To adequately measure runoff potential, EFB believes it important to collect samples of soil and runoff water after each rainfall event.
- ° Pond bottom sediments should be collected to at least a 5 cm depth. Suspended sediments should also be analyzed for residues.
- ° All analytical procedures and data need to be detailed when results are submitted.
- ° Soil sampling of treated fields to determine leaching potential is recommended. As a minimum, soil cores up to 6 inches deep should be analyzed. If residues are found at this level, then cores up to 12 inches are recommended.
- ° EFB defers to EEB to comment on whether all ecological factors have been considered and whether residue levels in fish and/or benthic organisms need to be measured.



Richard V. Moraski  
Chemist, Review Section No. 1  
Environmental Fate Branch

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Pages 3 through 6 are not included.

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