

US EPA ARCHIVE DOCUMENT

DP BARCODE: D213510

REREG CASE # 0100

CASE: 818975
SUBMISSION: S484206

DATA PACKAGE RECORD
BEAN SHEET

DATE: 04/28/95
Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: REREGISTRATION ACTION: 635 PROTOCOL
CHEMICALS: 059101 Chlorpyrifos (ANSI)

ID#: 059101

COMPANY:

PRODUCT MANAGER: 73 LINDA PROPST 703-308-8165 ROOM: CS1 2B3
PM TEAM REVIEWER: DENNIS MCNEILLY 703-308-8066 ROOM: CS1 3F5
RECEIVED DATE: 03/17/95 DUE OUT DATE: 06/25/95

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 213510 EXPEDITE: N DATE SENT: 03/27/95 DATE RET.: / /
CHEMICAL: 059101 Chlorpyrifos (ANSI)
DP TYPE: 001 Submission Related Data Package

CSF: N LABEL: N

ASSIGNED TO	DATE IN	DATE OUT	ADMIN DUE DATE: 06/25/95
DIV : EFED	03/29/95	/ /	NEGOT DATE: / /
BRAN: EFGB	03/29/95	04/27/95	PROJ DATE: / /
SECT: SWS	03/29/95	04/27/95	
REVR : SMOSTAGH	03/29/95	04/27/95	
CONTR:	/ /	/ /	

* * * DATA REVIEW INSTRUCTIONS * * *

ATTN: Henry Nelso

Protocol for chlorpyrifos vegetated filter strip study.
Registrant proposed to set up conference call around
mid-April to discuss the protocol. Can a review be done
that quick?

Dennis McNeilly

* * * DATA PACKAGE EVALUATION * * *

No evaluation is written for this data package

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
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Chemical No.: 059101

DP Barcode: D213510

Case: 818975

Submission: S484206

Date Out of EFGWB: _____

To: Linda Propst/Dennis Mcneilly
Registration Section III
Special Review and Registration Division

From: Henry Nelson, Ph.D., Head *H Nelson*
Surface Water Section
Environmental Fate and Groundwater Branch/EFED (7507C)

Thru: Henry Jacoby, Chief *Henry Jacoby 5/27/94*
Environmental Fate and Groundwater Branch
Environmental Fate and Effect Division (7507C)

Attached please find the EFGWB review of:

ID # (s): 059101

Common Name (s): Chlorpyrifos

Type of Product: Insecticide

Product Name: Lorsban.15G

Company Name: Dow/Elanco

Purpose: Review of protocol for conducting a small scale runoff study to evaluate the effect of Vegetative Filter Strips (VFSs) in reducing chlorpyrifos runoff

Action Code: 635

Total Review Time: 1 day

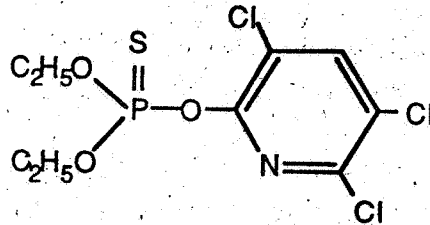
This is a review of second version of a draft protocol for conducting a small scale runoff study to evaluate the effectiveness of 15 and 30 feet VFSs in reducing chlorpyrifos runoff from field.

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1. CHEMICAL:

Common Name (s): Chlorpyrifos
Chemical Name: o,o-diethyl-o-(3,5,6-trichloro-2-pyridyl) phosphorothioate
Type of product: Insecticide

Chemical Structure:



Physical/Chemical Properties:

Molecular Weight: 350.6
Aqueous Solubility: 2.0 mg/L @ 20 °C
Vapor Pressure: 1.87×10^{-5} Torr
Henry's Constant: 4.21×10^{-6} Atm x m³/mol
Log K_{ow} = 4.70

2. TEST MATERIAL:

Lorsban 15G

3. STUDY/ACTION TYPE:

Review of second version of a draft protocol for conducting a small scale runoff study to evaluate the effectiveness of 15 and 30 feet VFSs in reducing chlorpyrifos runoff from field.

4. STUDY IDENTIFICATIONS:

Poletika, N. N, K. D. Racke and Lade, D. H. 1995. Chlorpyrifos Removal from Surface Runoff by Vegetated Filter Strips. Submitted by DowElanco. protocol No. ENV95004.

5. REVIEWED BY:

Siroos Mostaghimi, Ph.D., Environmental Engineer
Surface Water Section
Environmental Fate and Groundwater Branch/EFEF

Siroos - Mostaghimi

6. APPROVED BY:

Henry Nelson, Ph.D., Head *H. Nelson*
Surface Water Section
Environmental Fate and Groundwater Branch/EFED

7. BACKGROUND:

This is a review of the second draft of the protocol to evaluate the effectiveness of VFSs in removing chlorpyrifos from surface runoff. The first draft of this protocol was reviewed by Dr. Henry Nelson (DP Barcode: D204731).

8. CONCLUSIONS:

The current protocol is acceptable. EFGWB is pleased that DowElanco has addressed most of the concerns raised in previous review of this protocol by Dr. Henry Nelson. The questions raised in DowElanco letter dated March 16, 1995 are discussed below:

The composition of the artificial runoff proposed in the protocol seems reasonable and is acceptable by EFGWB.

EFGWB has reservations about the feasibility of mixing the artificial runoff in a tank, however, we assume that DowElanco will use the best technology available to make the artificial runoff.

The ratio of uniform to concentrated flow width of 15 ft to 1.5 ft is arbitrary and may not reflect the actual conditions in the field under which the runoff will occur. However, under circumstances described in this protocol it is acceptable.

The protocol indicates that "where practical, grass clippings will be removed by raking or other suitable means". EFGWB believes for being consistent the grass clippings should be removed from the all experimental areas. If this is not possible, the grass clippings should not be removed at all.

All deviations from the protocol should be documented and justified in the final report.

The final report should be delivered on disk as well as hard copy. If possible the experiment should be videotaped.

9. RECOMMENDATIONS:

The registrant should be informed to proceed with the study.

10. DISCUSSION:

See conclusions

11. COMPLETION OF ONE-LINER:

Not applicable

12. CBI INDEX:

Not applicable