

US EPA ARCHIVE DOCUMENT

Shaughnessy # - 108501

Date Out EFB: DEC 3 1982

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To: Robert Taylor
Product Manager 25
Registration Division (TS-767)

From: Emil Regelman, (Acting) Head
Review Section No. 1
Environmental Fate Branch
Hazard Evaluation Division (TS-769)

Attached please find the environmental fate review of:

Reg./File No.: 241-243

Chemical: Pendimethalin

Type Product Herbicide

Product Name: PROWL Herbicide

Company Name: American Cyanamid

Submission Purpose: Protocol review

ZBB Code: other

ACTION CODE: 450

Date In: 12/01/82

EFB # 86

Date Completed: DEC 3 1982

TAIS (level II)	Days
67	0.75

Deferrals To:

 Ecological Effects Branch

 Residue Chemistry Branch

 Toxicology Branch

1. INTRODUCTION/DISCUSSION

1.1 In response to a September 7, 1982 telephone conversation with Mr. Steller of American Cyanamid, (this reviewer recalls part of the conversation but a written record of it is missing from the file), agreement was reached on how American Cyanamid should conduct an anaerobic aquatic metabolism study that would accurately reflect use conditions of PROWL Herbicide on rice (application when the paddy is not flooded). It was also agreed that an aerobic aquatic metabolism study would not be needed to support the rice use since such conditions are not representative of the use pattern and there is hydrolysis, aerobic soil and anaerobic soil metabolism data in the EFB file.

1.2 The specific change American Cyanamid wishes to incorporate in the anaerobic aquatic metabolism study is that aerobic incubation of the PROWL treated rice culture soil be for 7 days before establishment of anaerobic conditions instead of applying PROWL to soil that has previously been under anaerobic conditions for 30 days.

1.3 Included in this submission is a study titled "CL 92,553: Metabolism XIII. The Behavior of CL 92,553 (Prowl Herbicide) in Soil, Part III. Anaerobic Studies." EFB records indicate this has been already reviewed in the evaluation of PP5F1556 dated Sept. 27, 1974.

2. CONCLUSIONS

2.1 EFB concurs with the change in protocol and that the aerobic aquatic metabolism study will not be needed.



Samuel M. Creeger
December 3, 1982
Section #1/EFB
Hazard Evaluation Division