M 108501

34

Date Out EFB: APR 29 1982

To: Product Manager 25 Taylor
TS-767

From: Dr. Willa Garner III
Chief, Review Section No. 1
Environmental Fate Branch

Attached please find the environmental fate review of:

Reg./File No.: 241-243

Chemical: Pendimethalin

Type Product: Herbicide

Product Name: Prowl

Company Name: American Cyanamid

Submission Purpose: Irrigated Crop Study

ZBB Code: Other

ACTION CODE: 400

Date in: 2/4/82

EFB #167

Date Completed APR 29 1982

TAIS (level II) 67 Days 3

Deferrals To:

_____ Ecological Effects Branch

_____ Residue Chemistry Branch

_____ Toxicology Branch

1

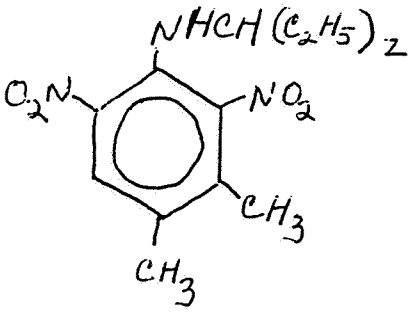
1.0 Introduction

1.1 Purpose

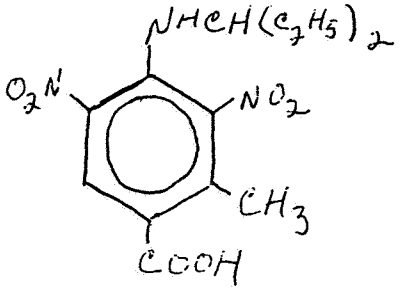
To review follow crop studies to determine if they fullfill the requirement for irrigated crop study per agreement with the registrant American Cyanamid Company, at a June 24, 1981 meeting.

1.2 Chemical

Pendimethalin = Prowl, Penoxalin, N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine



CL 99,900 = 0-toluic acid, 4-[(1-ethylpropyl)amino]-3,5-dinitro



Discussion

The submission consists of follow crop studies which had been previously reviewed January 6, 1975 with PP5F1556. No residues of pendimethalin or CL 99,900 were found in corn, beets, (red), soybeans, oats, wheat, or cotton when planted one year after treatment at a method of sensitivity of 0.05 ppm. In addition, no detectable residues were found when cotton, soybeans, or corn were replanted within 30 days of treatment. Soil residues as high as 2.058 ppm were found in the top 3 inches of soil in these studies.

3.0 Recommendation

The referenced studies may be used in place of an irrigated crop study unless a significant metabolite or degradate is identified in the aerobic aquatic metabolism study or the anerobic aquatic metabolism study which the registrant has agreed to perform.

EFB requires aerobic aquatic metabolism data and anaerobic aquatic metabolism data for this significantly new use. EFB cannot concur with this registration without this data.

Esther Saito

Esther Saito
Chemist
Section No. 4,
Environmental Fate Branch
Hazard Evaluation Division

THRU
Joseph C Reinert JCR
Chief,
Section No. 4,
Environmental Fate Branch
Hazard Evaluation Division