FILE COPY

Date Out EFB: MAY 12 1982

To: William Miller
Product Manager 16
Registration Division (TS-767)

From: Dr. Willa Garner, Chief III
Review Section No. 1
Environmental Fate Branch
Hazard Evaluation Division (TS-769)

Attached please find the environmental fate review of:

Reg./File No.: 11273-22

Chemical: Propetamphos [(E)-O-2-isopropoxycarbonyl-1-methylvinyl-O-methyl ethylphosphoramidothioate

Type Product: Insecticide

Product Name: Safrotin EC Insecticide

Company Name: Sandoz

Submission Purpose: Response to meeting

ZBB Code: ?

Date In: 3/29/82

Date Completed: MAY 12 1982

ACTION CODE: 311

EFB # 258

TAIS (level II)	Days
64	0.5

Deferrals To:

_____ Ecological Effects Branch

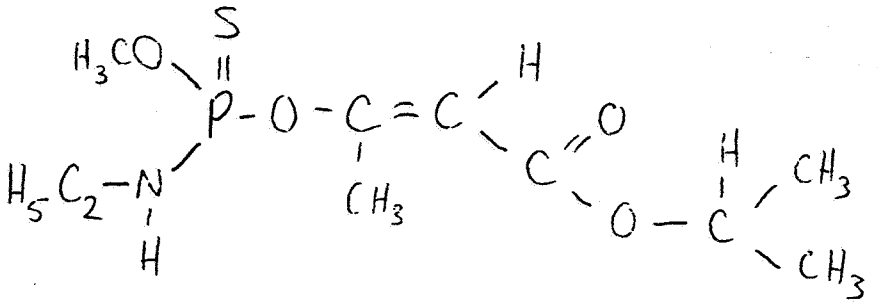
_____ Residue Chemistry Branch

_____ Toxicology Branch

1. INTRODUCTION

1.1 The registrant, Sandoz, Inc., in response to the February 9, 1982 meeting with EFB (Dr. Sami Malak), is asking EFB to reconsider the data requirements and is proposing to alter the use directions to reduce the data requirements.

1.2 Structure and properties of the active ingredient



(E)-O-2-isopropoxycarbonyl-1-methylvinyl-O-methyl ethylphosphoramidothioate

Properties (from the Farm Chemicals Handbook - 1981)

boiling point - 87-89 °C at 0.005 mm Hg
water solubility - 110 ppm at 24 °C
soluble in most organic solvents
hydrolytic halflives at 24 °C (appx)
pH 3 = 11 days
pH 6 = 365 days
pH 9 = 41 days

2. DIRECTIONS FOR USE

2.1 Safrotin is sprayed around the perimeter of buildings to control insects indoors.

2.2 A phone conversation during the first week in May 1982 with Susan Brotherton, the Registration Specialist with Sandoz, revealed that 2.5 oz ai/A are to be applied per 1000 square feet. It is to be applied in a 6 - 10 foot band of soil and vegetation and on the exterior wall to a height of 2 - 3 feet. Spot treatment to exterior surfaces around windows and doors is also recommended.

3. DISCUSSION

3.1 The following data requirements were imposed during the Feb. 9 meeting:

Hydrolysis,
Aerobic soil metabolism,
Mobility - leaching and
Field dissipation.

3.2 The registrant is willing to reduce the size of the band recommended for treatment from 6 - 10 feet to 3 - 6 feet, and asks if this will result in a reduction of the data requirements.

4. CONCLUSIONS/RECOMMENDATIONS

4.1 If the registrant will reduce the size of the band recommended for treatment around buildings to be treated from 6 - 10 feet to 3 - 6 feet, then only the following will be needed to support registration:

4.1.1 Hydrolysis

4.1.2 Aerobic soil metabolism - this study is not needed as a prerequisite to registration but must be submitted within 18 months.

4.2 Assessments by other branches in HED regarding this use may cause additional environmental fate data to be required.

4.3 Other outdoor uses of the pesticide may require additional data.

Samuel M. Creeger
May 11, 1982
Section #1/EFB
Hazard Evaluation Division