


125401

FILE

Date Out EFB: 13 DEC 1983

TO: Robert Taylor/Walters
Product Manager
Registration Division
TS-767

FROM: Sam Creeger, Chief 
Review Section No. 1
Exposure Assessment Branch
Hazard Evaluation Division

Attached please find the environmental fate review of:

Reg./File No.: 279-EUP-93

Chemical: FMC 57020

Type Product: Herbicide

Product Name: FMC 57020 EC

Company Name: FMC Corp.

Submission Purpose: Review conclusions of pre-registration
meeting on FMC 57020

ZBB Code: Other

ACTION CODE: 704

Date in: 11/18/83

EFB # 4078

Date Completed: 12/8/83

TAIS (level II) Days

67

0.5

Deferrals To:

Ecological Effects Branch

Residue Chemistry Branch

Toxicology Branch

XX 57

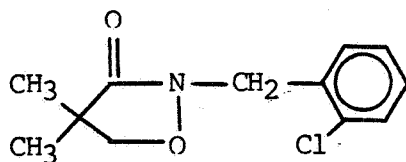
1.0 INTRODUCTION

FMC has submitted a letter summarizing points discussed in a pre-registration conference for the herbicide FMC 57020 being tested on soybeans under a current EUP. FMC requests confirmation of the points.

1.1 Chemical

Chemical name: 2-((2-chlorophenyl)-methyl)-4,4-dimethyl-3-isoxazolidinone

Chemical structure:



2.0 DISCUSSION

Points will be summarized and commented upon as listed in the FMC letter.

- 2.1 FMC point: EAB will accept a computer modeling study predicting extent of leaching to support registration of FMC 57020. FMC acknowledges that, based on lab studies, FMC 57020 will move downward in the soil profile and has the potential to end up in groundwater. EAB agrees there is no need to generate data to confirm this acknowledged potential.

EAB comment: However, it will be necessary for FMC to define the extent of leaching, in terms of depth and concentration of FMC 57020, with actual field data. In the soil dissipation study, if residues are found below the 6 inch soil level, then soil samples must be taken to sufficient soil depth to define the extent of leaching. EAB notes that soil samples are being taken at the 6-12 inch depth in the soil dissipation study.

- 2.2 FMC point: EAB stated that dissipation studies for tank mixes of FMC 57020 with other herbicides are not necessary at the present time.

EAB comment: EAB confirms that dissipation studies for tank mixes of FMC 57020 with other herbicides are not necessary.

- 2.3 FMC point: EAB stated that a fish accumulation study will be necessary to support registration of FMC 57020.

EAB comment: EAB confirms that a fish accumulation study will be necessary to support registration of FMC 57020.



Clinton Fletcher
Review Section No. 1
Exposure Assessment Branch
Hazard Evaluation Division.