TO:      Hank Jacoby  
        Product Manager 21  
        Registration Division  
        TS-767  

FROM:    Samuel M. 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-96  
Chemical:  Triforine  

Type Product:  Fungicide  
Product Name:  Funginex 1.6 EC  
Company Name:  FMC Corporation  
Submission Purpose:  Extension of EUP on almonds  

Date in:  11/15/84  
Date Completed:  1/17/85  
ACTION CODE:  716  
EFB #  5153  
TAIS (level II)  Days  

Deferrals To:  

_____  Ecological Effects Branch  
_____  Residue Chemistry Branch  
_____  Toxicology Branch
1.0 INTRODUCTION

FMC Corporation has submitted a request for extension of the experimental use permit (EUP) issued to evaluate the use of Funginex 1.6 EC (triforine, as a. i.) on almonds for control of Monilinia laxa (brown rot blossom blight). EM Laboratories authorized use of their data in support of this request.

EAB considered the application for the EUP in the review dated 3/29/83. In this review, EAB concurred with the EUP. The review noted that in EAB reviews dated 6/3/80 and 1/5/82, EAB (then EFB) concurred with conditional registration of triforine for this use.

1.1 Chemical

See previous review dated 3/29/83.

2.0 DIRECTIONS FOR USE

The proposed label directions are attached to this review.

3.0 DISCUSSION OF DATA

3.1 No additional data were included in the submission. Data previously considered for the EUP include:

Hydrolysis- Triforine rapidly hydrolyzed in unbuffered aqueous solution maintained at room temperature. No half-life was calculated. No degradation products were identified.

Aerobic soil metabolism- Triforine degraded under aerobic, anaerobic and sterile conditions. The route of degradation seemed to be chemical rather than microbial. Soil bound residues accounted for a large portion of the applied 14C.

Leaching- Leaching of the formulated product did not occur. However, aged residues of 3H-triforine were very mobile in soil. Thus, aged residues would have a potential to leach.

Fish accumulation- A preliminary report showed that triforine did not accumulate in edible tissues of fish. EAB concluded that accumulation in fish was not expected. Note: The final report of this study was requested (but evidently never received).
3.2 Data not required to support the EUP:

Rotational crop—Data are not needed since almond orchards are not usually rotated.

4.0 RECOMMENDATIONS

4.1 Adequate data are available to support the request for an extension of the EUP.

4.2 The registrant should be informed that the environmental fate data supporting triforine is old. In many cases, the data would not be considered adequate to support registration when compared to current Environmental Fate Guideline requirements. When application for future registration is requested, these studies will be re-considered in light of the current Environmental Fate Guideline requirements.

Clinton Fletcher
Review Section No. 1
Exposure Assessment Branch
Hazard Evaluation Division
The material not included contains the following type of information:

- Identity of product inert ingredients.
- Identity of product impurities.
- Description of the product manufacturing process.
- Description of quality control procedures.
- Identity of the source of product ingredients.
- Sales or other commercial/financial information.
- A draft product label.
- The product confidential statement of formula.
- Information about a pending registration action.
- FIFRA registration data.
- The document is a duplicate of page(s) ________.
- The document is not responsive to the request.

The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.