Shaughnessy #: _____

Date out of EAB: SEP 3 1986

Signature: HJH for SHC

To: H. Jacoby
Product Manager # 21
Registration Division (TS-767)

From: Joseph C. Reinert, Chief
Special Review Section
Exposure Assessment Branch
Hazard Evaluation Division (TS-769)

JCR

Attached please find the EAB review of:

Reg./File No.: 173, 591

Chemical: Bayleton (Triadimefon)

Type Product: Fungicide

Product Name: Bayleton

Company Name: Mobay

Submission Purpose: Addition to Registration Data Base

Date In: 6 May '86

Date Completed: 28 Aug. '86

Monitoring Requested: _____

Monitoring Voluntarily Done X

Action Code: 400

EAB # 6614

TAIS (level II) Days

_____ 1

Deferrals To:

_____ Ecological Effects Branch

_____ Residue Chemistry Branch

_____ Toxicology Branch

_____ Benefits and Use Division

135

1.0 INTRODUCTION

Mobay Chemical Corporation has submitted two applicator exposure studies in which Bayleton was electrostatically applied. Report 90232 measured applicator exposure during electrostatic application of Bayleton to grain. Report 90233 measured applicator exposure during electrohydraulic spray application to barley.

2.0 DISCUSSION

Electrostatic application of pesticides to a crop is a new technique that is being developed with the intention of reducing applicator exposure. The electrostatic applicator uses electrical energy to generate charged droplets of uniform size. The spray mist is reported to be comprised of particles so fine that the spray cone emanating from the nozzle is not visible.

The Exposure Assessment Branch evaluated both reports submitted by Mobay. Because this method of application is still experimental, tractor booms have not been developed. The study participants hand carried the booms during the study. The application period was five minutes in the grain study and 53 seconds during the barley study. Because of the short durations of exposure and the experimental method of boom application, the exposures determined from the two trials are inappropriate for regulatory purposes and did not appear to be intended for such use by Mobay.

The Exposure Assessment Branch is interested in this new application methodology and encourages Mobay to submit exposure data for Bayleton electrostatic applications once the application equipment has been perfected.

Curt Lunchick

Curt Lunchick
Special Review Section
Exposure Assessment Branch
Hazard Evaluation Division (TS-769C)