

US EPA ARCHIVE DOCUMENT

Shaughnessy #: \_\_\_\_\_

Date out of EAB: SEP 3 1986

Signature: HJA for STC

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

Action Code: 400

Date Completed: 28 Aug. '86

EAB # 6614

Monitoring Requested: \_\_\_\_\_

TAIS (level II)          Days

Monitoring Voluntarily Done X

         1

Deferrals To:

\_\_\_\_\_ Ecological Effects Branch

\_\_\_\_\_ Residue Chemistry Branch

\_\_\_\_\_ Toxicology Branch

\_\_\_\_\_ Benefits and Use Division

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## 1.0 INTRODUCTION

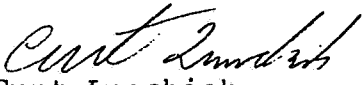
Mobay Chemical Corporation has submitted two applicator exposure studies in which Bayleton was electrostatically applied. Report 90232 measured applicator exposure during electrostatic application of Bayleton to grain. Report 90233 measured applicator exposure during electrohydraulic spray application 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  
Special Review Section  
Exposure Assessment Branch  
Hazard Evaluation Division (TS-769C)