

101101

Date Out EAB: \_\_\_\_\_

To: G. Werdig  
Product Manager 50  
Registration Division (TS-767)

OCT 21 1987

From: Matthew N. Lorber, Acting Program Manager  
Ground-Water Program  
Exposure Assessment Branch  
Hazard Evaluation Division (TS-769)

*CE*

Attached please find the environmental fate review of:

Req./File No.: \_\_\_\_\_

Chemical: Metribuzin

Type Product: \_\_\_\_\_

Product Name: \_\_\_\_\_

Company Name: Mobay Chemical

Submission Purpose: Ground-Water-Data-Call-In

ACTION CODE: 495

Date In: 6/20/85

EAB # 50701

Date Completed: \_\_\_\_\_

TAIS (level II) Days

365

Deferrals To:

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

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

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

Monitoring study requested by EAB: ☒

Monitoring study voluntarily conducted by registrant: ☐

DATE: 11-23-84  
BY: [Signature]

REGISTRATION DATA: DATA REVIEW RECORD  
--TO BE USED FOR REVIEW OF STATUS: PPA ONLY--

HED PROVIDED  
PACK NO.: 11047  
6-20-85

(Confidential Business Information)  
Does Not Contain National Security Info. (E.O. 12065)

(RD PROVIDE)  
SHAUGHNESSY NO.  
101101

CHEMICAL NAME: Metribuzin

Identifying Number	Action Code	Reference Number	Record Number	Study Guideline or Narrative Description	Reg. Std. Review Submission Criteria (SEE BELOW)	Accession Number	(RSERB Provide) MRID Number	(HED/BUD/TSS Complete) Review Results: Acceptable (A)/Unacceptable (U)
101101	495		153287			255751		
						255752		

PRODUCT MANAGER (PM) OR REVIEW MANAGER (RM) AND NUMBER: 50  
G. Werdig / S. Lewis  
DATE RECEIVED (EPA): 11-23-84  
RD BRANCH CHIEF INITIALS:

CHECK APPLICABLE BOX:

<input type="checkbox"/> Adverse 6(a)(2) Data (405,406)	<input type="checkbox"/> Data Waiver Request (Reregistration) (650,651)
<input type="checkbox"/> Suspect Data (415,416)	<input type="checkbox"/> Formulation Data and Labeling (Reregistration) (655,656)
<input type="checkbox"/> IBT Data (485,486)	<input type="checkbox"/> Generic Data (Reregistration) (660,661)
<input checked="" type="checkbox"/> Groundwater Data (495,496)	<input type="checkbox"/> Special Review Data (870,871)

AH

NUMBER OF INDIVIDUAL STUDIES SUBMITTED:	TO BE COMPLETED BY RSERB
RELATED ACTIONS:	DATE SENT TO HED/BUD/TSS: 6-19-85
INSTRUCTIONS: Review groundwater data requested in your 6/3/85 memo to G. Werdig, which was delivered to your office on 6/13/85	PRIORITY NUMBER: 50
	PROJECTED RETURN DATE: 11/19/85
	DATE RETURNED TO RD (HED/BUD/TSS PROVIDE):

REVIEWS SENT TO:

HED: ☐ SIS ☐ TB ☐ RCB ☒ EAB ☐ EEB      RD: ☐ TSS      BUD: ☐ EAB ☐ SSB

TO:		NUMBER OF ACTIONS		
		Reregistration	Special Review	Other
HED	Toxicology			
	Ecological Effects			
	Residue Chemistry			
	<input checked="" type="checkbox"/> Exposure Assessment			
RD/TSS	Product Chemistry			
	Efficacy			
	Precautionary Labeling/Acute Tox.			
PM	Science Support			
	Economic Analysis			

FOR DATA SUBMITTED UNDER A REGISTRATION STANDARD: Review Submission Criteria

Policy Note #31

1 = data which meet 6(a)(2) or meet 3(c)(2)(B) flagging criteria

2 = data of particular concern

3 = data necessary to determine tiered testing requirements

NOTE TO TSS: Return 1 Copy To RSERB

INCLUDE AN ORIGINAL AND FOUR (4) COPIES OF THIS COMPLETED FORM FOR EACH BRANCH CHECKED FOR REVIEW.

(RD PROVIDE)  
SHAUGNESSY NO.  
101101

Identifying Number	Action Code	Reference Number	Record Number	Study Guideline or Narrative Description	Reg. Std. Review Submission Criteria (SEE BELOW)	Accession Number	(R/SERB Provide) MRID Number	(HED/BUD/TSS Complete) Review Results: Acceptable (A)/ Unacceptable (U)
101101	495		153287			255751		
						255752		

PH/RA TEAM MEMBER AND NUMBER:

RM/RM TEAM MEMBER AND NUMBER:

50

RD BRANCH CHIEF INITIALS:

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**TO BE COMPLETED BY RSERB**

DATE SENT TO HED/HUD/TSS: 6-19-85

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PRIORITY NUMBER: 50

PROJECTED RETURN DATE: 11/19/85

DATE RETURNED TO RD (HED/BUD/TSS PROVIDE):

REVIEWING SENT TO: \_\_\_\_\_  
 HED: ☐ SIS ☐ TB ☐ RCB ☒ EAB ☐ DEB  
 RD: ☐ TSS  
 BUD: ☐ TAB ☐ SSB

TO: TYPE OF REVIEW		NUMBER OF ACTIONS		
		Reregistration	Special Review	Other
HED	Toxicology			
	Ecological Effects			
	Residue Chemistry			
	<input checked="" type="checkbox"/> Exposure Assessment			
RD/TSS	Product Chemistry			
	Efficacy			
	Precautionary Labeling/Acute Tox.			
FNI	Science Support			
	Economic Analysis			

**FOR DATA SUBMITTED UNDER  
A REGISTRATION STANDARD:  
Review Submission Criteria**

**Policy Note #31**

1 - data which meet  
5(a)(2) or meet  
3(c)(2)(B) flagging  
criteria

2 = data of particular concern

3 = data necessary to  
determine tiered  
testing requirements

NOTE TO TSS:  
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Chemical: Metribuzin

Issuance Date of DCI	Study Required by DCI	Study Received (mo./yr.)
7/25/84	Hydrolysis	11/84
	Photodegradation - water	11/84
	Photodegradation - soil	11/84
	Aerobic soil metabolism	11/84
	Anaerobic soil metabolism	11/84
	Leaching (adsorption/desorption)	11/84
	Field dissipation - soil	11/84
	Water solubility	11/84
	Vapor pressure	11/84
	Octanol water partition coefficient	11/84

Status of DCI/HED Review:

Basis for flagging Metribuzin as a potential ground water contaminant

Metribuzin has been found in ground water in Iowa at 1-4.3 ppb. It is persistent hydrolytically. It appears to be persistent to microbial degradation (half-life 30-90 days). Metribuzin is moderately mobile. It meets or exceeds some of the persistency and mobility triggers used to assess a pesticide's leaching potential.

Additional studies

All of the above studies are inadequate and the registrants have so been notified in the Registration Standard.

A ground water monitoring study is planned in conjunction with the registrant (Mobay). Mobay was given guidance in late 1986 on the design of the proposed study as one of four registrant-EPA pilot ground-water monitoring projects. The Agency is now awaiting the submission by Mobay of a protocol for the study. The study design will follow the small-scale retrospective ground-water monitoring study.

Additional actions which could be taken

None at this time.