

US EPA ARCHIVE DOCUMENT

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)

CEJr

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:

(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: G. Werdig / S. Lewis 50
 DATE RECEIVED (EPA): 11-23-84 RD BRANCH CHIEF INITIALS: AH

- CHECK APPLICABLE BOX:
- Adverse 6(a)(2) Data (405,406)
 - Suspect Data (415,416)
 - IBT Data (485,486)
 - Groundwater Data (495,496)
 - Data Waiver Request (Reregistration) (650,651)
 - Population Data and Labeling (Reregistration) (655,656)
 - Generic Data (Reregistration) (660,661)
 - Special Review Data (870,871)

NUMBER OF INDIVIDUAL STUDIES SUBMITTED: _____
 RELATED ACTIONS: _____
 INSTRUCTIONS: Review groundwater data requested in your 6/3/85 memo to G. Werdig, which was delivered to your office on 6/13/85
 TO BE COMPLETED BY RSERB
 DATE SENT TO HED/BUD/TSS: 6-19-85
 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:	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.			
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

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	(RSEB Provide) MRID Number	(HED/BUD/TSS Complete) Review Results: Acceptable (A)/ Unacceptable (U)
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						255752		

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

- CHECK APPLICABLE BOX:
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 - Formulation Data and Labeling (Reregistration) (655,656)
 - Generic Data (Reregistration) (660,661)
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NUMBER OF INDIVIDUAL STUDIES SUBMITTED:
 RELATED ACTIONS:

TO BE COMPLETED BY RSEB
 DATE SENT TO HED/BUD/TSS: *6-19-85*
 PRIORITY NUMBER: *50*
 PROJECTED RETURN DATE: *11/19/85*
 DATE RETURNED TO RD (HED/BUD/TSS PROVIDE):

INSTRUCTIONS: *Review groundwater data requested in your 6/3/85 memo to G. Werdig, which was delivered to your office on 6/13/85*

REVIEWS SENT TO:

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

TO:	TYPE OF REVIEW	NUMBER OF ACTIONS			FOR DATA SUBMITTED UNDER A REGISTRATION STANDARD: Review Submission Criteria
		Reregistration	Special Review	Other	
HED	Toxicology				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
	Ecological Effects				
	Residue Chemistry				
	<input checked="" type="checkbox"/> Exposure Assessment				
RD/TSS	Product Chemistry				
	Efficacy				
	Precautionary Labeling/Acute Tox.				
RD	Science Support				NOTE TO TSS: Return 1 Copy To RSEB
	Economic Analysis				

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

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.