

Shaughnessy No.: 121601

Date Out of EFGWB: APR 24 1989

To: Robert Taylor
Product Manager #25
Fungicide-Herbicide Branch
Registration Division (H7505C)

From: Emil Regelman, Supervisory Chemist *a. Reiter for E.R.*
Chemistry Review Section #2
Environmental Fate & Ground Water Branch (H7507C)

Thru: Henry Jacoby, Acting Chief *Henry Jacoby*
Environmental Fate & Ground Water Branch
Environmental Fate & Effects Division (H7507C)

Attached, please find the EFGWB review of...

Reg./File # : 113

Common Name: Acetochlor

Type Product : Herbicide

Product Name : Harness®

Company Name : ICI America Inc.

Purpose : Review waiver requests re laboratory volatility (§163-2), field
volatility (§163-3), and fish accumulation (§165-4).

Date Received: 11/23/88

Action Code(s): 350

Date Completed: 4/21/89

EFGWB #(s): 90170

Total Reviewing Time:(decimal days): 2.2 days

Deferrals to: Ecological Effects Branch, EFED
Science Integration & Policy Staff, EFED
Non-Dietary Exposure Branch, HED
Dietary Exposure Branch, HED
Toxicology Branch, F-H Support/HED

1. CHEMICAL: Common name(s):

Acetochlor

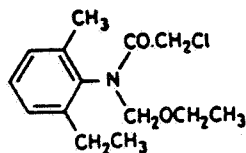
Chemical name:

2-chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl)-acetamide

Trade name(s):

Harness®

Structure:



Formulations:

86.4% a.i., herbicide.

Physical/Chemical properties:

Molecular weight: 269

Form: liquid

B. P.: > 200°C

M. P.: > 0°C

Vapor Pressure: < 1 mm Hg

Hydrolysis Rate: Nondetectable at pH 5-9

Solubility : In water, 223 ppm; very soluble in ether, acetone, benzene, alcohol, chloroform, and ethylacetate.

Stability: Stable (first detectable heat evolution at 170°C)

2. TEST MATERIAL:

N/A.

3. STUDY/ACTION TYPE:

Review waiver requests by ICI America Inc. re laboratory volatility (§163-2) field volatility (§163-3), and fish accumulation (§165-4).

4. STUDY IDENTIFICATION:

N/A.

5. REVIEWED BY:

Padma Datta, Ph.D.
Chemist
Chemistry Review Section #2
EFGWB/EFED/OPP

Signature: PR Datta

Date: 4/24/89

6. APPROVED BY:

Emil Regelman
Supervisory Chemist
Chemistry Review Section #2
EFGWB/EFED/OPP

Signature: A. Reiter for Emil Regelman

Date: 4/24/89

7. CONCLUSIONS:

EFGWB concurs with the requests for waiver of the laboratory volatility study (§163-2) and the field volatility study (§163-3) because: (1) the vapor pressure of acetochlor (4.4×10^{-5} mm Hg at 25°C) approximates the Agency's cut-off point (1×10^{-6} mm Hg at 25°C) for requiring these studies; (2) acetochlor is classified as category III by the Agency thus neither an inhalation toxicity study nor re-entry exposure monitoring data are required.

EFGWB cannot concur with the request for waiver of a fish accumulation study (§165-4) because: (1) the K_{ow} of acetochlor (ca 970) is not significantly lower than $K_{ow} = 1000$, the Agency's cut-off point for not requiring this study; (2) ICI America Inc. has not offered evidence that acetochlor will not reach bodies of water in or near corn fields and persist in water.

8. RECOMMENDATIONS:

EFGWB recommends RD inform ICI America Inc. that waiver requests for the laboratory volatility study (§163-2) and the field volatility study (§163-3) are granted by the Agency.

ICI must submit to the Agency a fish accumulation study (§165-4) to support continued registration of acetochlor.

9. BACKGROUND:

On 11/11/88 ICI America Inc. requested the Agency waive the following data requirements for the use of acetochlor on corn:

- §163-2 - Laboratory volatility
- §163-3 - Field volatility
- §165-4 - Fish accumulation

ICI America Inc. included rationales to justify these waiver requests for the above studies.

10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES:

N/A.

11. COMPLETION OF ONE-LINER:

See attached one-liner.

12. CBI APPENDIX:

N/A.

OFFICE OF PESTICIDE PROGRAMS DATA REVIEW RECORD

ATTACHMENT 1

Confidential Business Information-Does Not Contain National Security Information(E.O. 12065)
This form is to be used for individual studies and for submission of pesticide applications

1. PRODUCT NAME ACETOCHLOR		CHEMICAL NAME ACETOCHLOR		
2. IDENTIFYING NUMBER 113	3. RECORD NUMBER 235,286	4. ACTION CODE 350	5. MRID/ACCESSION NUMBER	6. STUDY GUIDELINE OR NARRATIVE
7. REFERENCE NUMBER 1	8. DATE RECEIVED (EPA) 11-21-88	9. <u>PRODUCT</u> REVIEW MANAGER/DCI J. Miller	10. <u>PM/RM</u> TEAM NUMBER 25	11. DATE SENT TO (HED/EFED/RD/BEAD) 11-23-88
12. PROJECTED RETURN DATE 1-23-89	13. DATE RETURNED TO (RD/SRRD)	INSTRUCTIONS: REVIEW WAIVER REQUESTS FOR FISH BIOACCUMULATION AND LAB/FIELD VOLATILITY STUDIES.		
ICI's ACETOCHLOR - SEC (3) APPL. NOT SUBMITTED YET. (THIS SECTION APPLIES TO REVIEW OF STUDIES ONLY)				

14. CHECK APPLICABLE BOX:

15. NUMBER OF INDIVIDUAL STUDIES SUBMITTED ☐ ADVERSE 6(a)(2) DATA (405)
☒ SPECIAL REVIEW DATA (870)☐ GENERIC DATA (660)
(REREISTRATION)☐ PRODUCT SPECIFIC DATA (655)
(REREISTRATION)

16. HAVE ANY OF THE ABOVE STUDIES (in whole or in part) BEEN PREVIOUSLY SUBMITTED FOR REVIEW? (circle: yes or no) IF YES, PLEASE IDENTIFY THE STUDY(IES):

17. RELATED ACTIONS:

18.	TO	TYPE OF REVIEW	19. REVIEWS ALSO SENT TO	20. DATA REVIEW CRITERIA	
HED		SCIENCE ANALYSIS & COORD.	SAC	A. Policy Note #31 ☐ 1 = data which meet 6(a)(2) or meet 3(c)(2)(B) flagging criteria ☐ 2 = data of particular concern from registration standard ☐ 3 = data necessary to determine tiered testing requirements	
		TOXICOLOGY/HFA	TOX/HFA		
		TOXICOLOGY/IR	TOX/IR		
		DIETARY EXPOSURE	DEB		EA
		NON-DIETARY EXPOSURE	NDE		AC
EF	ED	ECOLOGICAL EFFECTS		BA	
SRRD		ENVIRONMENTAL FATE & GROUND H2O	EEB	B. Section 18 ☐ 1 = data in support of section 3 in lieu of section 18 C. Inert Ingredients ☐ 1 = data in support of continued use of List 1 inert	
		SPECIAL REVIEW	EFGWB		
		REREGISTRATION	SR		
RD		GENERIC CHEMICAL SUPPORT	RER		
		INSECTICIDE-RODENTICIDE	GSC		
		FUNGICIDE-HERBICIDE	IR		
		ANTIMICROBIAL	FH		
2AD		PRODUCT CHEMISTRY	AM		
		PRECAUTIONARY LABELING			
		ECONOMIC ANALYSIS			
		ANALYTICAL CHEMISTRY			
		BIOLOGICAL ANALYSIS			

☐ CONFIDENTIAL STATEMENT OF FORMULA (TRADE SECRETS) ☐ LABEL ATTACHED

White - Data Coordinator

Yellow - Data Review Section

Green - Return with completed review

Pink - PM/RM/DCI

Include original + two (2) copies with each submission