

US EPA ARCHIVE DOCUMENT

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

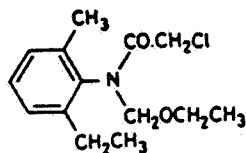
Chemical name:

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: PK 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 ( $4.4 \times 10^{-5}$  mm Hg at 25°C) approximates the Agency's cut-off point ( $1 \times 10^{-6}$  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

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 <b>ACETOCHLOR</b>		CHEMICAL NAME <b>ACETOCHLOR</b>		
2. IDENTIFYING NUMBER <b>113</b>	3. RECORD NUMBER <b>235,286</b>	4. ACTION CODE <b>350</b>	5. MRID/ACCESSION NUMBER	6. STUDY GUIDELINE OR NARRATIVE
7. REFERENCE NUMBER <b>1</b>	8. DATE RECEIVED (EPA) <b>11-21-88</b>	9. <u>PRODUCT</u> REVIEW MANAGER/DCI <b>J. Miller</b>	10. <u>PM/RM</u> TEAM NUMBER <b>25</b>	11. DATE SENT TO (HED/EFED/RD/BEAD) <b>11-23-88</b>
12. PROJECTED RETURN DATE <b>1-23-89</b>	13. DATE RETURNED TO (RD/SRRD)	INSTRUCTIONS: <b>REVIEW WAIVER REQUESTS FOR FISH BIOACCUMULATION AND</b>		

**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 (REREGISTRATION) (660)
- PRODUCT SPECIFIC DATA (REREGISTRATION) (655)

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:

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

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

18.	TO	TYPE OF REVIEW	19. REVIEWS ALSO SENT TO
HED		SCIENCE ANALYSIS & COORD.	SAC PC
		TOXICOLOGY/HFA	TOX/HFA PL
		TOXICOLOGY/IR	TOX/IR
		DIETARY EXPOSURE	DEB EA
		NON-DIETARY EXPOSURE	NDE AC
EF ED		ECOLOGICAL EFFECTS	BA
	<input checked="" type="checkbox"/>	ENVIRONMENTAL FATE & GROUND H2O	EEB
SRRD		SPECIAL REVIEW	EFGWB
		REREGISTRATION	
		GENERIC CHEMICAL SUPPORT	SR
RD		INSECTICIDE-RODENTICIDE	RER
		FUNGICIDE-HERBICIDE	GSC
		ANTIMICROBIAL	
		PRODUCT CHEMISTRY	IR
ZAD		PRECAUTIONARY LABELING	FH
		ECONOMIC ANALYSIS	AM
		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

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