



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

SEP 12 1991

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

MEMORANDUM

SUBJECT: Review of New Chemical Screen for Acetochlor (for use on corn grain, corn forage, and corn fodder)
EFGWB No. None
CAS Reg. No.: 34256-82-1
Chemical code: 121601
File Symbol/Reg. No.: 10182-GEL/PP#1F4011
DP Barcodes: D167764

TO: J. Miller/J. Mayes
Product Manager #23
Registration Division (H7505C)

THRU: Paul Mastradone, Chief *Paul J. Mastradone*
Chemistry Review Section #1
Environmental Fate and Ground Water Branch (H7507C)

THRU: Hank Jacoby, Chief *Hank Jacoby*
Environmental Fate and Ground Water Branch
Environmental Fate and Effects Division (H7507C)

FROM: Gail Maske, Chemist *Gail Maske*
Chemical Review Section #1
Environmental Fate and Ground Water Branch (H7507C)

The registrant (ICI Americas Inc.) is requesting registration of ICIA-5676 and SC 5676, acetochlor formulations, for used on corn grain, corn forage, and corn fodder. This use pattern would be considered terrestrial food and feed crops; therefore, the terrestrial food and feed crops data requirements would be required (no label was submitted).

Based on a review of the data base, there are insufficient data to support registration of acetochlor for terrestrial food and feed crops uses. In addition, acetochlor does not pass the new chemical screen for the following reason:

Accumulation in confined rotational crops data (165-1) has not been submitted. Accumulation in confined rotational crops data is required when it is reasonably foreseeable that any food or feed crop may be subsequently planted on the site of pesticide application.

All other acetochlor data requirements for terrestrial food and feed crop uses have been submitted and accepted (hydrolysis, photodegradation in water, photodegradation on soil, and leaching, adsorption/desorption) or submitted and accepted (aerobic soil metabolism, anaerobic soil metabolism, terrestrial soil dissipation, and accumulation in fish) for the purpose of this screen.

Furthermore, the following data requirements for [REDACTED] used in acetochlor to reduce its phytotoxicity, must be submitted for registration of [REDACTED] and acetochlor formulations for terrestrial food and feed crops uses when used in combination with acetochlor [REDACTED]

Environmental Fate
Data Requirements

- 162-2 Anaerobic soil metabolism
- 164-4 Combination tank mix
- 165-1 Accumulation in confined rotational crops
- 165-4 Accumulation in fish

All other [REDACTED] data requirements for terrestrial food and feed crop uses were submitted under Section 3 and are presently under review (hydrolysis, photodegradation in water, photodegradation on soil, aerobic soil metabolism, leaching, adsorption/desorption, and terrestrial soil dissipation).

Attached is a summary of the status of the Environmental Fate Data Requirements for acetochlor and [REDACTED] for use on terrestrial food and feed crops.

THE STATUS OF THE ENVIRONMENTAL FATE DATA REQUIREMENTS FOR ACETOCHLOR AND [REDACTED] REGISTRATION FOR TERRESTRIAL NON-FOOD CROPS ARE SUMMARIZED BELOW

ACETOCHLOR

Environmental Fate Data Requirement	Status of Data Requirement	MRID No.	Status of Data Requirement	MRID No.
Degradation Studies-lab				
161-1 Hydrolysis	Fulfilled (WGM;01/18/91)	41565144	In Review	41561409
161-2 Photodegradation in water	Fulfilled (WGM;06/15/91)	41565145 (1)	In Review	41561410
161-3 Photodegradation on soil	Fulfilled (WGM;06/15/91)	41565146 (1)	In Review	41561411
Metabolism Studies-lab				
162-1 Aerobic soil	Not Fulfilled (WGM;1/18/91)	41565147 (2)	In Review	41561412
162-2 Anaerobic soil (2)			Not Submitted	
Mobility Studies				
163-1 Leaching, Adsorption/Desorption	Fulfilled (WGM;01/18/91)	41565149	In Review	41561413
Dissipation Studies-field				
164-1 Soil	Not Fulfilled (WGM;06/15/91)	41565152 (1&2) 41565153 41592012 41592013	In Review	41561414 41561415 41561417
164-4 Combination tank mix	Not Submitted (3)			

THE STATUS OF THE ENVIRONMENTAL FATE DATA REQUIREMENTS FOR ACETOCHLOR AND [REDACTED] REGISTRATION FOR
TERRESTRIAL NON-FOOD CROPS ARE SUMMARIZED BELOW (CON'T)

ACETOCHLOR

Environmental Fate Data Requirement	Status of Data Requirement	MRID No.	Status of Data Requirement	MRID No.
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Accumulation Studies

165-1 Confined rotational crops	Not Submitted		Not Submitted	
165-4 in Fish	Not Fulfilled (WGM;06/15/91)	41565154 (1&2)	Not Submitted	

INERT INGREDIENT INFORMATION IS NOT INCLUDED

- 1 These studies are in secondary review.
- 2 Data for acetochlor was submitted with the new chemical screen.
- 3 A combination and tank mix study (164-4) is also required. Therefore, a terrestrial soil dissipation study on two soils using acetochlor, a terrestrial soil dissipation study on two soils using [REDACTED] and a terrestrial soil dissipation study on two soils using both acetochlor and [REDACTED] are required.