To: Robert Taylor  
Product Manager #25  
Fungicide-Herbicide Branch  
Registration Division (TS-767C)

From: Emil Regelman, Supervisory Chemist  
Review Section #2  
Environmental Fate & Ground Water Branch  
Environmental Fate & Effects Division (TS-769C)

Thru: Paul F. Schuda, Ph.D., Chief  
Environmental Fate & Ground Water Branch  
Environmental Fate & Effects Division (TS-769C)

Attached, please find the ERGWB review of...

Reg./File #: 524-GUI

Common Name: Acetochlor

Type Product: Herbicide

Product Name: Harness®, Top-Hand®.

Company Name: Monsanto Chemical Co.

Purpose: Review the risk portions of the acetochlor support document

Date Received: 8/15/88  
Action Code(s): 160

Date Completed: 9/14/88  
ERGWB #(#): 80967

Monitoring study requested:  
Total Reviewing Time: 0.5 day

Monitoring study voluntarily:

Deferrals to:  
1 Ecological Effects Branch/EFED  
2 Dietary Exposure Branch/HED  
3 Toxicology Branch-HFA Support/HED
1. **CHEMICAL:**

   **Common name(s):**
   
   Acetochlor
   
   **Chemical name:**
   2-chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl)-acetamide

   **Other name(s):**
   
   Harness®, Top-Hand®.

   **Structure:**
   
   ![Chemical Structure Diagram]

   **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:**


4. **STUDY IDENTIFICATION:**

   N/A.
5. REVIEWED BY:
Padma Datta, Ph.D.
Chemist
Review Section #2
ERGWB/EFED/OPP

Signature: [Signature]
Date: 9/14/88

6. APPROVED BY:
Emil Regelman
Supervisory Chemist
Review Section #2
ERGWB/EFED/OPP

Signature: [Signature]
Date: SEP 15 1988

7. CONCLUSIONS:
ERGWB does not review dietary, drinking water, or applicator exposure data nor exposure estimate methodologies. The Ground Water Team of ERGWB does not do risk management nor write the label language for ground water contamination.

8. RECOMMENDATION:
ERGWB recommends RD reroute this Acetochlor Support Document (R.D.879) to the appropriate branches of CP for their review.

9. BACKGROUND:
On 7/25/88, Monsanto Chemical Co. submitted a complete Acetochlor Support Document (R.D. 879) which is an extensive outline of the rationale for registration of Harness® and Top-Hand® herbicides.

10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES:
N/A.

11. COMPLETION OF ONE-LINER:
See attached one-liner sheet.

12. CBI APPENDIX:
Registrant identified portions of this Support document (R.D.879) as containing confidential information and they should be treated by the Agency as such.