

US EPA ARCHIVE DOCUMENT

Shaughnessy No.: 090501

Date Out of EAB: JUL 2 1987

To: Robert J. Taylor  
Product Manager #25  
Registration Division (TS-767)

From: Carolyn K. Offutt, Chief *Carolyn Offutt*  
Environmental Processes and Guidelines Section  
Exposure Assessment Branch  
Hazard Evaluation Division (TS-769C)

Attached, please find the EAB review of...

Reg./File # : 090501  
Chemical Name: Alachlor  
Type Product : Herbicide  
Product Name : Lasso  
Company Name : Monsanto  
Purpose : Review of 1985 Alachlor Monitoring Protocol (Surface Water)

Action Code: 660

EAB #(s) : 50610

Date Received: 5/31/85

Total Reviewing Time: 0.2

Date Completed: 7/02/87

Monitoring study requested: yes

Monitoring study voluntarily submitted:       

Deferrals to:        Ecological Effects Branch  
       Residue Chemistry Branch  
  X   Toxicology Branch

REVIEW OF PROTOCOL FOR 1985 MONSANTO ALACHLOR MONITORING STUDY

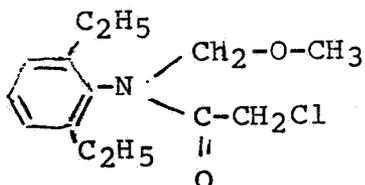
1. CHEMICAL:

Common Name: Alachlor

Trade Name: Lasso

Chemical Name: 2-chloro-2'6' diethyl-N-(methoxymethyl)  
acetanilide

Structure:



2. TEST MATERIAL: NA

3. STUDY/ACTION TYPE: Review protocol for 1985 Alachlor surface water monitoring study

4. STUDY IDENTIFICATION:

The submission included:

- (1) Protocol #85-24-R-2: A Study to Determine Alachlor Concentrations in Potable Water Derived from Surface Water Sources - 1985 Use Season. March 15, 1985. (7 pages)
- (2) Analytical Protocol #85-24-R-2A: Determination of Alachlor in Raw and Finished Surface Water by Gas Chromatography. April 1, 1985. (5 pages)
- (3) Analytical Protocol #85-24-R-2B: The Determination of Alachlor in Raw and Finished Surface Water by Gas Chromatography-Mass Spectrometry. April 26, 1985. (3 pages)
- (4) Appendix A Submission to EPA on February 15, 1985. (2-page letter and 17-page protocol)
- (5) Appendix 2 Standard Operating Procedures (SOP): Sample Collection, Chain of Custody, and Transport.
  - (a) 2-page SOP on sample pickup and transportation
  - (b) 4-page SOP's for each of the 24 sampling sites (the only difference between the SOP's, besides the names of the sampling site, is the information on the sampling location.

Monsanto Agricultural Products Company.

Record No: 151901

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5. REVIEWED AND APPROVED BY:

Carolyn K. Offutt, Chief  
Environmental Processes and Guidelines Section  
Exposure Assessment Branch, HED (TS-769)

*Carolyn K. Offutt*  
7/2/87

6. CONCLUSIONS:

The protocols were received after the final site selection had been made and after sampling had begun. Comments on the study design will be made when the final report is submitted.

8. RECOMMENDATIONS:

The study design and analytical protocols should be evaluated when the final report is submitted or when the protocol for the 1986 monitoring study is submitted.

9. BACKGROUND:

The November 1984 Registration Standard for Alachlor included a requirement for Monsanto to conduct a study of alachlor contamination of surface water. Representatives of the Exposure Assessment Branch met with Monsanto Scientists on January 31, 1985, to design the required field monitoring study. EAB recommended that Monsanto use the inventory of public drinking water supplies to obtain a population of community water systems (CWS). As a result of these discussions, Monsanto submitted sampling and analytical protocols for the determination of exposure to alachlor through drinking water derived from surface water sources in the United States.

10 DISCUSSION:

- a. Methods and Materials
- b. Results
- c. Study Author's Conclusions
- d. Reviewer's Comments and Conclusions:

By the time the referenced protocols were received by the Agency in May 1985, the sites had already been selected and the sampling had begun.

Therefore, evaluations of the study design, the site selection, and the analytical protocols will be made when the final report is submitted with specific information on the individual sites and analytical quality control.

11. COMPLETION OF ONELINER: NA

12. CBI APPENDIX: NA

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