Shaughnessy #: 090501

		Due Date: 12/	26
	·	Ini	t: 19 DEC 1984
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To:	R. Taylor Product Manager #25 Registration Division	(TS-767C)	ORC
From:	Joseph C. Reinert, Ph. Special Review Section Exposure Assessment Br Hazard Evaluation Divi	a nch	
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Attache	d please find the EAB revi	ew of	
Reg./Fi	le No.: _524-316		
Chemica	l: Alachlor		
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	oduct: Herbicide		
Product	Name: Lasso		
Company	Name: Monsanto		
Submiss	ion Purpose: Exposure Ass	essment Study-Protoco	l Review
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	Ecological Effects Branch		
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	Residue Chemistry Branch		
	Toxicology Branch		



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

MEMORANDUM

18 DEC 1984

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

SUBJECT: Alachlor(Lasso), EPA Reg. #524-316. Protocol-Lasso

Herbicide Application Exposure Study Biological Monitoring

1984 Field and Sample Protocol.

TO:

Robert Taylor, PM #25

Registration Division (TS-767C)

TO:

Amal Mahfouz, Ph.D.

Section v

Toxicology Branch/HED (TS-769C)

FROM:

Curt Lunchick, Chemist

Special Review Section

Exposure Assessment Branch (TS-769C)

THRU:

Joseph C. Reinert, Chief

Special Review Section

Exposure Assessment Branch/HED (TS-769

The protocol submitted by Monsanto in September 1984 for applicator exposure study No. 84-24-R-1A has been reviewed. The protocol as outlined appears to be sufficient; however, EAB has several recommendations and comments that should be brought to the registrant's attention.

The exposure study is a biological monitoring study rather than a passive dosimetry exposure study. It can not be stated in strong enough terms that the data obtained from this study are useful for determining worker exposure ONLY if adequate pharmacokinetic data on alachlor are available for review by the Toxicology Branch.

EAB recommends that passive dosimetry (gauze patches) be utilized as an exposure measurement technique in biological monitoring studies. This is recommended as an insurance measure should the pharmacokinetic data be determined to be inadequate or invalid. The protocol submitted by Monsanto indicated that the field experiments conducted in Ontario were so amended. The field experiments conducted in Indiana should have been similarly amended.

When passive dosimetry is utilized in a biological monitoring study, EAB recommends that the gauze patches and other collecting material be placed on subjects who are NOT used for urine collection. In lieu of this procedure caution must be taken to insure that the collecting material not cover large areas of the body. Cotton gloves and forearm bands are examples of collection devices covering large body areas. This caution is stated because these materials will absorb a significant percentage of the test material and therefore prevent its absorption through the skin so that metabolites will not be excreted in the urine in quantities representative of the worker's exposure.

EAB strongly objects to registrants requesting reviews of protocols for studies that have already been conducted. Monsanto submitted the protocols to EPA in September 1984 although the studies were scheduled for completion in June 1984. Recommendations for amendments in the protocol can not possibly be made after the fact, thereby making the protocol review an exercise in futility. It is hoped that in the future Monsanto will submit their protocols prior to study initiation so that recommendations may be incorporated into the protocol. EAB will insure rapid turn around on protocols submitted for review. This will lead to mutually acceptable and benefical studies for both the registrant and Agency.