US EPA ARCHIVE DOCUMENT

DATA EVALUATION RECORD

1. CHEMICAL: Metolachlor [108801]

2. FORMULATION: Technical

3. CITATION: Sachsse, K. (1977) Skin Sensitizing (Contact Allergenic) Effect in Guinea Pigs of Technical CGA-24705. Project No. Siss 5726. Received October 17, 1977. [Unpublished Report Prepared by CIBA-GEIGY Ltd., Basle Switzerland].

4. TRADE SECRET CLAIM: Yes

5. REASON FOR REVIEW: Generic Standards for Metolachlor

6. REVIEWED BY: Carolyn Gregorio
Biochemist, Metabolic Effects Branch
Criteria and Evaluation Division

7. DATE OF REVIEW: January 24, 1978

8. TEST TYPE: Dermal Sensitization Study

A. Materials and Methods: Two groups of twenty [10 males, 10 females] guinea pigs of the Pirbright white strain. The test animals received a total of 10 intracutaneous insult injections [0.1 ml] of freshly prepared 0.1% dilution of technical metolachlor in propylene glycol [test group] or 10 intracutaneous insult injections [0.1 ml] of propylene glycol [control group].

Two weeks following the last insult injection the animals received a challenge injection [o.1 ml] of freshly prepared 0.1% dilution of technical metolachlor in propylene glycol [test group] or propylene glycol [control group].

B. Reported Results: Dermal Reactions after intradermal challenge injection:

Formulation	Treated Animals	Positive Reaction Animals	P value**
Propylene Glycol	20	5	—
Technical + Propylene Glycol	20	16	0.001*

*A probability of 0.01 was considered to indicate a significant difference.

**The exact fisher test for comparison of the basic probability of two binominal distributions; L. Sachs, Statistiche Auwertungsmethoden, Thime Verlag, Stutgart, 1971.

C. Discussion: No discussion necessary.

D. Conclusion: Technical metolachlor is a skin sensitizer in albino guinea pigs.

This study meets the requirements for skin sensitization.