

US EPA ARCHIVE DOCUMENT

DATA EVALUATION RECORD

1. CHEMICAL: Metolachlor [108801]
2. FORMULATION: Technical
3. CITATION: Affiliated Medical Research, Incorporated (1974) Acute Dermal LD₅₀ of CGA-24705 - Technical in Rabbits: Contract No. 120-2255-34. Received September 26, 1974 under 5G1553. (Unpublished report prepared for CIBA-GEIGY Corp., Greensboro, N.C.; CDL: 112840-E)
4. TRADE SECRET CLAIM: Yes
5. REASON FOR REVIEW: Generic Standard for Metolachlor
6. REVIEWED BY: Carolyn Gregorio
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7. DATE OF REVIEW: January 23, 1978
8. TEST TYPE: Acute Dermal Toxicity
 - A. Material and Methods: Groups consisting of four (2 male, 2 females) young, healthy albino New Zealand Rabbits (weights ranging between 2085 and 2970 grams). Animals were clipped free of dorsal hair using an electric clipper. Test compound was applied (5,000 mg/kg and 10,000 mg/kg dose levels) under rubber dental damming held in place with adhesive tape for 24 hours. Food and water were provided ad libitum. Animals were observed for signs of toxicity and mortality for 14 days. Survivors were examined for gross pathology.
 - B. Reported Results: Signs of toxicity were described as dermal irritation, slight to moderate erythema and edema; no signs of systemic toxicity observed. Gross autopsy findings showed no abnormality at the 5000 mg/kg dose; 10,000 mg/kg dose revealed slight dermal irritation, no corrosive injury to the skin and hair growing back sparsely and matted at the sight of application. These were no deaths reported at either dose level.
 - C. Discussion: Minimum requirements for an acute dermal toxicity (LD₅₀) include four animals per sex per dose [2 animals per sex abraded, 2 animals per sex unabraded]. This study did not use any abraded animals.
 - D. Conclusion: The acute dermal toxicity LD₅₀ (unabraded) is greater than 10,000 mg/kg for both sexes.

This acute dermal toxicity [LD₅₀] study is sufficient for meeting the requirement for unabraded animals.

This acute dermal toxicity [LD₅₀] study does not meet the requirement for abraded skin.

2/2