

US EPA ARCHIVE DOCUMENT

CASE

PM

CHEM Chlorsulfuron

002637

BRANCH TB DISC TOPIC Eye Irritation - Rabbit

FORMULATION Formulated, 75% active

FICHE/MASTER ID

CONTENT CAT

Eye Irritation In Rabbits - EPA Pesticide Registration,
Haskell Laboratory Report No. 1034-80, Silber, L. S.

SUBST. CLASS =

OTHER SUBJECT DESCRIPTORS

DIRECT RVW TIME = 1 1/4 hours START-DATE END DATE

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SIGNATURE: *J. C. Summers*DATE: *November 9, 1981*APPROVED BY: *e. Frick*

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DATE: *10/13/82*

Conclusion:

- A. Core Guideline
- B. Category III
- C. The chlorsulfuron formulation is a mild eye irritant although one of nine treated rabbit eyes had a persistent iritic swelling.
- D. This study conforms to EPA proposed guidelines in section 163.81-4 Primary eye irritation study (43 Federal Register 37359, 8/22/78).

Methods:

The right eyes of 9 male rabbits were treated with 0.1 ml (73 mg) test material and the left eyes served as untreated controls. After 20 seconds, 3 treated eyes were washed with tap water for 1 minute. The treated eyes of the other 6 rabbits were not washed. The eyes were examined with a bright artificial light and an ophthalmoscope at 1, 2, 3, 4, 7, 14 and 18 days until all ocular signs subsided and scored according to Draize. Fluoroscein® stain and a slit-lamp biomicroscope were also used for eye examinations.

Results:

The chlorsulfuron formulation caused transient slight corneal clouding and mild conjunctivitis in the washed and unwashed rabbit eyes. Transient slight iritic injection was seen in the unwashed eyes and persistent iritic swelling in 1 washed eye. All unwashed eyes were normal 3 days after treatment. Two out of 3 washed eyes were normal at 4 days.

Discussion:

The methods, scientific principles, validity of conclusions, and adequacy of data for conclusions were adequate for the study.