

CASE

PM

CHEM Chlorsulfuron

BRANCH TB

DISC

TOPIC Eye Irritation - Rabbit

FORMULATION Technical

002642

FICHE/MASTER ID

CONTENT CAT

Eye Irritation Test In Rabbits, Haskell Laboratory Report
No. 744-76, Brittelli, M. R.

SUBST. CLASS =

OTHER SUBJECT DESCRIPTORS

DIRECT RVW TIME = 1 1/4 hours

START-DATE

END DATE

REVIEWED BY: J. C. Summers

TITLE: Research Associate

ORG: E. I. du Pont de Nemours & Co., Inc., Biochemicals Department

LOC/TEL: Wilmington, Delaware / (302) 772-2367

SIGNATURE: *J. C. Summers*

DATE: November 7, 1951

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

Conclusion:

002642

- A. Core Supplementary.
- B. Category not assigned.
- C. Technical chlorsulfuron is a very mild temporary eye irritant, based on this limited test.
- D. This study was run in 1976 prior to EPA Proposed Guidelines in Section 163.81-4 Primary Eye Irritation Study (43 Federal Register 37359, 8/22/78). The number of rabbit eyes evaluated is considerably less than proposed in the guidelines.

Methods:

Ten milligrams of test material was placed into the right conjunctival sac of each of two albino rabbits. After twenty seconds, one treated eye was washed with tap water for one minute. The treated eye of the other rabbit was not washed. Observations of the cornea, iris, and conjunctiva were made with a hand-slit lamp at one and four hours, and at one, two, and three days; Fluor-i-strip® stain and a biomicroscope were used at examinations after the day of treatment.

Results:

Chlorsulfuron produced very mild temporary conjunctival irritation with no corneal or iritic involvement in both the unwashed and washed rabbits' eyes. Both treated eyes were normal within four hours-one day. Mortality did not occur.

Discussion:

The methods, scientific principles, and validity of conclusions were adequate for the study. The study demonstrates that chlorsulfuron is only a very mild temporary eye irritant, but it does not satisfy the guideline since only two eyes, one washed and one unwashed, were evaluated rather than six unwashed and three washed as proposed in the guideline.