

US EPA ARCHIVE DOCUMENT



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

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

MAR 14 1988

SUBJECT: EPA File Symbol 352-LRE
Du Pont Metsulfuron Methyl Technical

FROM: Mary L. Waller
Technical Support Section
Fungicide-Herbicide Branch
Registration Division (TS-767C)

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TO: Robert J. Taylor, PM 25
Fungicide-Herbicide Branch
Registration Division (TS-767C)

APPLICANT: E.I. Du Pont De Nemours & Co., Inc.
ATTN: Mrs. Billie Lynn Rash
Agricultural Products Department
Walker's Mill Building
Barley Mill Plaza
Wilmington, DE 19898

ACTIVE INGREDIENT:

Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-amino]sufonyl]benzoate 93%

INERT INGREDIENT: 7%

BACKGROUND:

The applicant has submitted a primary eye irritation, dermal sensitization and primary skin irritation study. The studies were conducted by Haskell Laboratory. The MRID numbers are 403578-01 and -02. The method of support is owner submission.

RECOMMENDATION:

FHB/TSS finds the data unacceptable and classifies the studies as supplementary.

The registrant should refer to the Agency Testing Guidelines, Subdivision F - Hazard Evaluation: Humans and Domestic Animals, Section 80-1 through 81-6 for the proper test methods.

LABELING:

Comments reserved under ^{TIL}~~any~~ acceptable data is submitted.

REVIEW:

- (1) Primary Eye Irritation Study: Haskell Laboratory: No. 717-80; MRID number 403578-01; 10-13-80.

PROCEDURE:

Two albino rabbits were each administered 10 mg of test material which was placed in the conjunctival sac of the right eye. Twenty seconds after test material administration, the treated eye of one animal was rinsed for one minute with tap water. Eye irritation was scored at 4 hours and at 1, 2, 3, 6, and 14 days.

RESULTS:

Eye irritation observed in the animal with the unwashed eye was as follows: slight clouding of cornea at 4 hours and at 1 day; moderate injection of the iris at one day; moderate conjunctivae redness at 1 day and mild redness at day 2; moderate swelling at 1 day and mild swelling at day 2; and copious amounts of discharge at 1 day and mild by day 2.

Eye irritation observed in the animal with the washed eye was as follows: moderate area of slight corneal clouding decreasing to local area of slight clouding by day 6; moderate redness and swelling at 4 hours, and moderate amount of discharge at 1 day.

STUDY CLASSIFICATION:

Supplementary - See comments under Recommendation.

- (2) Dermal Sensitization Study: Haskell Laboratory; No. 797-80; MRID number 403578-02; 10-9-80.

PROCEDURE:

Ten albino guinea pigs (animals used previously for the primary skin irritation study) were administered induction treatments consisting of 4 sacral intradermal injections of 0.1 ml of a 1.0% suspension of test material in dimethyl

phthalate. Treatments were administered once a week for 4 weeks. Two weeks later, the test group and naive control group of ten albino guinea pigs were challenged using a topical application of 0.05 ml of a 40% and a 4% suspension of test material in dimethyl phthalate on the shaved shoulder skin. Positive or negative reactions were recorded at 24 and 48 hours.

RESULTS:

Based on range-finding data, 40% test material was found to be nonirritating. At challenge, 2/10 animals in the test group exhibited positive response and 1/10 animals in the naive control group exhibited positive response at 24 hours.

STUDY CLASSIFICATION:

Supplementary - See comments under Recommendation.

- (3) Primary Skin Irritation Study: Haskell Laboratory: No. 797-80; MRID number 403578-02; 10-9-80.

PROCEDURE:

Ten albino guinea pigs were administered 0.05 ml of a 40% and 4% suspension of test material in dimethyl phthalate on shaved, intact shoulder skin. Positive or negative reactions for skin irritation were noted at 24 and 48 hours.

RESULTS:

At 24 hours, 2/10 animals displayed skin irritation.

STUDY CLASSIFICATION:

Supplementary - See comments under Recommendation.