

BB-1591
TR-5394



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

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MEMORANDUM

Date: August 26, 1982

Subject: EPA File Symbol: 239-ELNR
Weed-B-Gon Plus Weed & Feed

From: Deloris F. Graham *8/30/82*
FHB/TSS *E 8/30/82*

To: Richard Mountfort
Product Manager (23)

Applicant: Chevron Chemical Company
Ortho Consumer Products Division
940 Hensley Street
Richmond, CA 94804-0036

Active Ingredients:	
2,4-dichlorophenoxyacetic acid	0.88%
2-(2-Methyl-4-chlorophenyl)propionic acid	0.88%
Inert Ingredients	97.81%

Background: Submitted Acute Oral, Acute Dermal, Eye Irritation and Skin Irritation Studies. Studies conducted by Chevron. Data under accession number 247897.

Recommendation:

- (1) FHB/TSS finds these data acceptable to support conditional registration of this product.
- (2) An Acute Inhalation Study was not submitted, but one must be submitted and/or cited.
- (3) The appropriate signal word is CAUTION.

Label:

- (1) Precautionary statements must be revised to include, "Harmful if absorbed through skin. If on skin wash with soap and water. See a doctor if irritation persists."

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Review:

(1) Acute Oral Toxicity Study: Chevron; Socal 1681; August 15, 1980.

Procedure: 5M and 5F Sprague-Dawley rats weighing between 212 and 275 g received 5.0 g/kg of the test material diluted in 1% CMC. 5M and 5F rats were dosed with 20 ml/kg. of 1 CMC and served as the control. Observations made daily for 14 days. Necropsy performed on all animals.

Results: No mortalities or signs of toxicity. One control animal was inadvertently misdosed and died three days after dosing. No abnormalities at necropsy.

Study Classification: Core Guideline Data.

Toxicity Category: IV - CAUTION

(2) Acute Dermal Toxicity Study: Chevron; Socal 1682/42:43; March 4, 1981.

Procedure: 5M and 5F New Zealand rabbits received 5 g/kg of the test material. Due to the death of one male rabbit at this dose level, five additional male rabbits were treated with 2 g/kg of the test material. The test material was applied to abraded skin. Treated areas were placed under occlusive wrap for 24 hour exposure. Observations were made daily for 14 days. Necropsy performed on all animals.

Results: The one male animal that died at 5 g/kg had reduced food consumption, depression, diarrhea and collapsed. At histopathological examination this animal had acute tubular necrosis of the kidney which may have been related to treatment. All other animals show no toxic signs or abnormalities at necropsy. LD50 for females greater than 5 g/kg. LD50 for males is greater than 2 g/kg.

Study Classification: Core Guideline Data

Toxicity Category: III - CAUTION

(3) Eye Irritation Study: Chevron; Socal 1684; September 9, 1980.

Procedure: Nine rabbits received 100 mg of the test material in one eye each. The treated eyes of three of the rabbits were washed 30 seconds post treatment. Observations were made at one hour and at 1, 2, 3, 4, 7, 10 and 14 days.

Results: At day 1, 6/6 animals of the unwashed group and 1/3 animals of the washed group had corneal opacity (2/6=10, 2/6=20, 1/6=30); no iris irritation, 6/6 and 3/3 redness (6/6=2) (3/3=2), chemosis (4/6=1, 1/6=2, 1/6=3) (1/3=1, 2/3=2) and discharge (4/6=2, 2/6=3) (2/3=2, 1/3=3).

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At day 4, no corneal opacity; 2/6 had redness (1/6=1, 1/6=2) and 1/6 discharge (1/6=1). No corneal or iris irritation or conjunctive irritation in 3/3 animals of the washed group.

At day 10, irritation had cleared in animals of the unwashed group.

Study Classification: Core Guideline Data.

Toxicity Category: III - CAUTION

(4) Skin Irritation Study: Chevron; Socal 1683; August 20, 1980.

Procedure: Six New Zealand rabbits received 0.5 g of the test material at two intact and two abraded skin sites per rabbit under occlusive wrap for 24 hour exposure. Observations made at 24, 48, 72 hours and at 7 days post treatment.

Results: At 24 hours, 5/6 had erythema (4/6=1, 1/6=2) and no edema. At 72 hours, no irritation present. Primary Irritation Score was 0.3.

Study Classification: Core Guideline Data

Toxicity Category: IV - CAUTION

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Pages 4 through 8 are not included in this copy.

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