

US EPA ARCHIVE DOCUMENT

DD-77
TR-519

MEMORANDUM

005198

DATE: May 23, 1984

SUBJECT: EPA Registration Number 2217-566
Trimec DMB #2 Turf Herbicide

FROM: Deloris F. Graham / E-31/E4
FHB/TSS

TO: Richard Mounifor
Product Manager (23)

Applicant: PBI/Gordon Corporation
1217 West 12th Street
P.O. Box 4090
Kansas City, MO 64101-9984

Active Ingredient:

| | |
|--|--------|
| +2,4-Dichlorophenoxyacetic acid..... | 45.59% |
| 2-(2-methyl-4-chlorophenoxy) propionic acid..... | 15.90% |
| Dicamba (3,6-dichloro-o-anisic acid)..... | 4.30% |
| Inert Ingredients..... | 29.71% |

Background: Submitted Eye Irritation Study to support change in toxicity category. Study conducted by Midwest Research Institute. Study under accession number 252263. Method of support not indicated.

Recommendation:

1. Based on the Eye Irritation study the appropriate signal word is DANGER.

Label:

1. No additional label comments.

Review:

1. Eye Irritation Study: Midwest Research Institute; MRI Project No. 7819-E(C); December 12, 1983.

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Procedure: Nine New Zealand white rabbits received 0.1 g of the test material in one eye each. The treated eyes of three of the rabbits were washed for one minute, 30 seconds after treatment. Observations made at 1, 2, 3, 4, 7, 10, 13, 16, 19 and 21 days after treatment.

Results: At day 1, 6/6 animals of the unwashed group and 3/3 animals of the washed group had corneal opacity (1/6=20, 2/6=40, 2/6=60, 1/6=80) (1/3=10, 2/3=20); 5/6 & 2/3 iris irritation (5/6=5) (2/3=5); 6/6 & 3/3 conjunctive redness (6/6=3) (3/3=3), chemosis (2/6=3, 4/6=4) (1/3=3, 2/3=4) and discharge (6/6=3) (1/3=2, 2/3=3).

At day 7, 6/6 & 2/3 corneal opacity (1/6=10, 1/6=20, 1/6=40, 2/6=45, 1/6=60) (1/3=30, 1/3=45); 3/6 iris irritation (3/6=5); 6/6 & 2/3 redness (2/6=1, 1/6=2, 3/6=3); 5/6 & 2/3 chemosis (5/6=1) (2/3=1); 4/6 & 2/3 discharge (1/6=1, 1/6=2, 2/6=3) (2/3=3).

At day 13, 5/6 & 2/3 corneal opacity (1/6=5, 1/6=20, 1/6=30, 1/6=40, 1/6=60) (1/3=20, 1/3=60); 2/6 iris irritation (2/6=5); 2/6 & 1/3 redness (2/6=3) (1/3=2); 4/6 & 2/3 chemosis (3/6=1, 1/6=2) (2/3=2) and discharge (2/6=1, 1/6=2, 1/6=3) (1/3=1, 1/3=3).

At day 21, 4/6 & 2/3 corneal opacity (1/6=20, 1/6=40, 2/6=60) (1/3=10, 1/3=20); 2/6 & 1/3 redness (2/6=2) (1/3=1); 2/6 chemosis (2/6=1).

Study Classification: Core Guideline Data

Toxicity Category: 1 - DANGER.

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