

US EPA ARCHIVE DOCUMENT

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

005390

MEMORANDUM

Date: September 8, 1982

Subject: EPA Registration No. 876-177
Banvel 720

From: Deloris F. Graham
FHB/TSS *F 9/14/82*

To: Richard Mountfort
Product Manager (23)

Applicant: Velsicol Chemical Corporation
341 East Ohio Street
Chicago, IL 60611

Active Ingredients:
Dufon [3-(3,4-dichlorophenyl)-1,1-dimethylurea].....80%
Inert Ingredients.....20%

Background: Submitted Acute Oral, Acute Dermal, Eye Irritation and Primary Dermal Irritation Studies. Studies conducted by International Research and Development Corporation. Data under accession number 248023. Method of support not indicated.

Recommendation:

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

Label:

- (1) The statement "Keep out of lakes, streams or ponds" must be revised to read "Do not apply directly to water."

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Review:

(1) Acute Oral Toxicity Study: International Research and Development Corporation; #163-567; June 22, 1978.

Procedure: 5M and 5F rats received 5,000 mg/kg of the test material orally. Observations made 4 hours after dosing and daily thereafter for a total of 14 days. Necropsy performed on all animals.

Results: No mortalities. Toxic signs included hypoactivity, decreased limb tone and ataxia. Necropsy revealed lungs - congested; stomach - glandular mucosa, thickened; kidneys - mottled coloration; uterus - hydrometra. LD₅₀ greater than 5,000 mg/kg.

Study Classification: Core Guideline Data.

Toxicity Category: IV - CAUTION

(2) Acute Dermal Toxicity Study: International Research and Development Corporation; #163-567; June 22, 1978.

Procedure: 4M and 4F New Zealand rabbits received 20,000 mg/kg of the test material. One-half the animals had 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: No mortalities. Diarrhea present in male animal. Very slight to moderate erythema, slight edema and very slight atonia. Necropsy revealed liver contained solid white nodules; small intestine mucosa, thickened; kidneys - pale coloration, pitted, mottled coloration. LD₅₀ greater than 20,000 mg/kg.

Study Classification: Core Guideline Data.

Toxicity Category: IV - CAUTION

(3) Eye Irritation Study: International Research and Development Corporation; #163-567; June 22, 1978.

Procedure: 9 New Zealand rabbits received 0.1 ml. of the test material in one eye each. The treated eyes of three of the rabbits were washed thirty seconds posttreatment. Observations were made at 24, 48 and 72 hours, 4 and 7 days.

Results: At 24 hours, 2/6 animals had slight redness and 1/5 slight chemosis; no corneal opacity or iris or any other conjunctive irritation present. Irritation clear by 48 hours.

Study Classification: Core Guideline Data.

Toxicity Category: IV - CAUTION

(3) Primary Skin Irritation Study: International Research and Development Corporation; #163-567; June 22, 1978.

Procedure: Six New Zealand rabbits received 0.5 ml. of the test material. One-half the animals had abraded skin. Treated areas were placed under occlusive wrap for 24-hour exposure. Observations were made 24 and 72 hours posttreatment.

Results: At 24 hours 2/6 animals had eschar formation (2/6=1); clear at 72 hours. Primary Irritation score was 0.2.

Study Classification: Core Guideline Data

Toxicity Category: IV - CAUTION

DIURON SCIENTIFIC REVIEWS

Page _____ is not included in this copy.

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- Identity of product inert ingredients
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 - Identity of the source of product ingredients
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