RB-1617

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

002820

MEMORANDUM

DATE: May 3, 1982

SUBJECT: EPA File Symbol: 538-RTI
Summer Crabgrass Control

FROM: Deloris F. Graham
FHB/TSS

TO: Richard Mountfort
Product Manager (23)

Applicant: O. M. Scott & Sons Company
Marysville, Ohio 43041

Attention: Michael P. Kelty

Active Ingredient:
Monosodium acid methanearsonate.....2.34%
Inert Ingredients.....97.66%

Background: Submitted an Acute Oral, Acute Dermal, Eye Irritation and Primary Dermal Irritation Studies. Studies conducted by Hazleton Raltech, Incorporated. Data under accession number 247080. Alternate method of support.

Recommendations:

(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, or a justification as to why this study is not necessary.

(3) The appropriate signal word is CAUTION.

Label:

(1) The statement "Do not contaminate feed or foodstuffs" must be deleted from precautionary statements and placed under "Directions For Use."

(2) The storage and disposal statements must appear in the "Directions For Use."

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Review:

(1) Acute Oral Toxicity Study: Hazleton Raltech, Inc.; RT# 919087; January 22, 1982.

Procedure: 5 M and 5F Sprague-Dawley rats weighing between 207 and 230 g received 5 g/kg of the test material. Observations were made at 1, 2.5 and 4 hours, then daily for 14 days post treatment. Necropsy performed on all animals.

Results: No mortalities. Diarrhea observed in some animals. Necropsy revealed mild hydrometra of the uterus in one female. LD_{50} greater than 5 g/kg.

Study Classification: Core Guideline Data.

Toxicity Category: IV - CAUTION

(2) Acute Dermal Toxicity Study: Hazleton Raltech, Inc. RT # 919087; February 4, 1982.

Procedure: Each of 5M and 5F New Zealand rabbits weighing between 2425 and 2916 g received 2 g/kg of the test material at abraded skin sites under occlusive wrap for 24 hours exposure. Observations made daily for 14 days. Necropsy performed on all animals.

Results: No mortalities. Slight erythema, edema and desquamation present. At necropsy in one male animal, left kidney not present. LD_{50} greater than 2 g/kg.

Study Classification: Core Guideline Data

Toxicity Category: III - CAUTION

(3) Eye Irritation Study: Hazleton Raltech, Inc.; RT #919087; January 29, 1982.

Procadure: Nine New Zealand 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, thirty seconds posttreatment. Observations were made at 24, 48, 72 and 96 hours and at 7 days.

Results: At 24 hours, 3/6 animals of the unwashed group had corneal opacity (2/6 = 5, 1/6 = 15); 2/6 iris irritation (2/6 = 5); 6/6 redness (3/6 = 1.5, 2/6 = 2.0, 1/6 = 2.5); 5/6 chemosis (3/6 = 1, 1/6 = 2, 1/6 = 3); 4/6 discharge (3/6 = 1, 1/6 = 2). At 96 hours, 4/6 had redness (3/6 = 0.5, 1/6 = 1/0). At 7 days, no corneal opacity or iris irritation or conjunctive irritation present.

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At 24 hours, 3/3 animals of the washed group had redness (3/3 = 1.5); 1/3 chemosis (1/3 = 1) and discharge (1/3 = 1). At 96 hours, 1/3 redness (1/3 = 1). At 7 days, no corneal opacity, iris or conjunctive irritation.

Blanching and corneal epithelial peeling observed.

Study Classification: Core Guideline Data.

Toxicity Category: III - CAUTION

(4) Primary Dermal Irritation Study: Hazleton Raltech, Inc. RT # 919087; January 24, 1982.

Procedure: Each of six New Zealand rabbits received 0,5 g of the test material at 2 abraded and 2 intact skin sites per rabbit under occlusive wrap for 24 hours exposure. Observations made at 24 and 72 hours.

Results: At 24 hours, 1/6 erythema (1/6 = 1) and 3/6 edema (3/6 = 1). At 72 hours, 2/6 erythema (2/6 = 1)-and 1/6 edema (1/6 = 1). Primary Irritation Score was 0.2.

Study Classification: Core Guideline Data.

Toxicity Category: IV - CAUTION

MSMA toxicology review

Page _____ is not included in this copy.

Pages 4 through 8 are not included in this copy.

The material not included contains the following type of information:

___ Identity of product inert ingredients

___ Identity of product impurities

___ Description of the product manufacturing process

___ Description of product quality control procedures

___ Identity of the source of product ingredients

___ Sales or other commercial/financial information

X A draft product label

___ The product confidential statement of formula

___ Information about a pending registration action

___ FIFRA registration data

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The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.
