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

006039

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

JUN 3 1986

MEMORANDUM

SUBJECT: EPA File Symbol 3125-GTN

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

TO: Henry Jacoby, PM 21
Fungicide-Herbicide Branch
Registration Division (TS-767C)

Applicant: Mobay Chemical Corporation
Agricultural Chemicals Division
Box 4913, Hawthorn Road
Kansas City, MO 64120-0013

ACTIVE INGREDIENT: ~~unknown~~
1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazole-1-yl)-2-butanone . . . . . 0.85%
INERT INGREDIENTS: . . . . . 99.15%

BACKGROUND:

The applicant has submitted Acute Oral, Acute Dermal, Acute Inhalation, Primary Eye, Primary Skin, and Dermal Sensitization studies. The studies were conducted by Mobay Chemical Corporation, Corporate Toxicology Department. The data Accession Number is 260163. The method of support is owner submission.

RECOMMENDATION:

FHB/TSS finds these data acceptable; however, the registrant must verify that the product tested is the product for which registration is sought. In addition, since the Product Manager and PM Team members could not locate the jacket, this review and the jacket, when located, must be returned to FHB/TSS for review of the label and the Confidential Statement of Formula. Based on these data, the signal word is CAUTION and the product is a sensitizer.

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TKW 7/19/86

006039

LABELING: See attached

All comments reserved until jacket is located and label is available for review.

REVIEW:

(1) Acute Oral Toxicity Study: Mobay Chemical Corp.; Report No. 601; March 4, 1985.

PROCEDURE:

Five male and five female Sprague-Dawley rats were administered, by gavage, a single oral dose of 5000 mg/kg of test material in deionized water. Animals were observed twice daily for 14 days or until symptoms subsided. Body weights were recorded on day of treatment and on days 7 and 14. All animals were necropsied.

RESULTS:

No deaths occurred. The $LD_{50}$ for both sexes was reported to be > 5000 mg/kg. Toxic symptoms observed were salivation and red nasal discharge which subsided by 5 hours after dosing. No gross lesions were observed at necropsy, and animals gained weight during study.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: Category IV - CAUTION.

(2) Acute Dermal Toxicity Study: Mobay Chemical Corp.; Report No. 626; May 3, 1985.

PROCEDURE:

Five male and five female New Zealand White rabbits each received 2000 mg/kg of test material which was applied to a test site shaven the day before. The test sites were kept under occlusive wrap and animals were restrained using collars during the 24-hour exposure. After exposure, the wrap, collars, and remaining test material were removed. Animals were observed for 14 days. Body weights were recorded on day of exposure and days 7 and 14. All animals were necropsied.

RESULTS:

No deaths occurred. The dermal $LD_{50}$ for both sexes was reported to be > 2000 mg/kg. No toxic symptoms or gross abnormalities were observed.

LABELING:

All comments reserved until jacket is located and label is available for review.

REVIEW:

(1) Acute Oral Toxicity Study: Mobay Chemical Corp.; Report No. 601; March 4, 1985.

PROCEDURE:

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STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: Category IV - CAUTION.

(2) Acute Dermal Toxicity Study: Mobay Chemical Corp.; Report No. 626; May 3, 1985.

PROCEDURE:

Five male and five female New Zealand White rabbits each received 2000 mg/kg of test material which was applied to a test site shaven the day before. The test sites were kept under occlusive wrap and animals were restrained using collars during the 24-hour exposure. After exposure, the wrap, collars, and remaining test material were removed. Animals were observed for 14 days. Body weights were recorded on day of exposure and days 7 and 14. All animals were necropsied.

RESULTS:

No deaths occurred. The dermal $LD_{50}$ for both sexes was reported to be > 2000 mg/kg. No toxic symptoms or gross abnormalities were observed.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: Category III - CAUTION.

(3) Acute Inhalation Toxicity Study: Mobay Chemical Corp.; Report No. 599; March 4, 1985.

PROCEDURE:

Ten male and ten female Sprague-Dawley rats were exposed (head only) for 4 hours to an aerosol of test material having an analytical concentration of 2615 mg/L. A control group of 10 males and 10 females were exposed to room air under similar conditions. Animals were observed twice daily for 14 days except on weekends when they were examined once a day. All animals were necropsied.

RESULTS:

No deaths occurred. The $LC_{50}$ was reported to be > 2615 mg/L. Toxic symptoms observed were lacrimation and nasal and ocular irritation in both groups during and post exposure. Gross necropsy revealed dark pink lungs in 3/10 females and 2/10 males.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: Category IV - CAUTION.

(4) Primary Eye Irritation Study: Mobay Chemical Corp.; Report No. 587; February 12, 1985.

PROCEDURE:

Six New Zealand White rabbits each received 0.1 ml of test material in the left eye. The other eye served as the control. Eye irritation was scored at 1, 24, 48, and 72 hours and at 7 days.

RESULTS:

Eye irritation was scored as follows: at 24 hours, corneal opacity (1/6 = 5), iris irritation (1/6 = 5), conjunctival redness (1/6 = 2, 4/6 = 1), chemosis (3/6 = 1), and discharge (2/6 = 2, 1/6 = 1), and at 7 days, all irritation had cleared.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: Category III - CAUTION.

(5) Primary Dermal Irritation Study: Mobay Chemical Corp.; Report No. 600; March 4, 1985.

PROCEDURE:

Six New Zealand White rabbits were shaved on the back and sides, and 24 hours later, each animal received 0.5 ml of test material which was applied to a test site under occlusive wrap for 4 hours. After exposure, the wrap and any remaining test material was removed. Skin irritation was scored at 1, 24, 48, and 72 hours.

RESULTS:

At one hour, 6/6 animals exhibited very slight erythema. All irritation had cleared by 24 hours.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: Category IV - CAUTION.

(6) Dermal Sensitization Study: Mobay Chemical Corp.; Report No. 633; May 30, 1985.

PROCEDURE:

Fifteen Hartley albino guinea pigs were shaved, and each animal received induction treatments of 0.5 ml of test material applied to a test site on the left flank under occlusive wrap for 6 hours on days 0, 7, and 14. After 2 weeks, a challenge dose identical to an induction dose was applied to the left flank of the 15 test animals and an additional four vehicle control animals. The test group and vehicle control group received 0.5 ml of propylene glycol [redacted] applied to the right flank (previously shaven and depilated) under occlusive wrap for 24 hours. Skin irritation was scored at 24 and 48 hours after challenge treatment. All animals were weighed at start and end of study.

RESULTS:

At 24 hours after the second induction treatment, 1/15 animals exhibited slight barely perceptible erythema and at 24 hours after the third induction treatment 3/15 animals exhibited slight barely perceptible erythema. After challenge treatment, 2/15 test animals exhibited moderate erythema and 8/15 animals exhibited slight barely perceptible erythema. The test sites on the vehicle control group treated with test material and the test sites treated with the vehicle exhibited no skin irritation.

**STUDY CLASSIFICATION:** Core Guideline Data.

**TOXICITY CATEGORY:** Sensitizer.

006039

7/19/96

LABELING:

1. Place the following sentence under the directions for use: "Do not contaminate feed or food.

2. Combine the last two paragraphs under the precautionary statements ~~and~~ with the NOTE TO PHYSICIAN. Also add to NOTE TO PHYSICIAN the statement "TREATING TREATMENTS.

3. Place the precautionary statement for eye and skin exposure first followed by the precautionary statements for inhalation and oral exposure.

4. [illegible] Treatment for acute exposure" directly above as number 3.

5. The following statement is added to the precautionary statement "Skin contact may cause allergic skin reactions."

RIN 5711-93

TRIADIMEFON TOX REVIEWS

Page_____ is not included in this copy.

Pages 9 through 12 are not included.

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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 quality control procedures.

____ Identity of the source of product ingredients.

____ Sales or other commercial/financial information.

✓ A draft product label.

____ The product confidential statement of formula.

____ Information about a pending registration action.

____ FIFRA registration data.

____ The document is a duplicate of page(s) _____.

____ The document is not responsive to the request.

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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.

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