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

006078

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

AUG 11 1986

MEMORANDUM

SUBJECT: EPA File Symbol 359-TEE
Chipco 26019 FLO

FROM: Deloris F. Graham *DJH 8/11/86*
Technical Support Section
Fungicide-Herbicide Branch
Registration Division (TS-767C)

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

APPLICANT: Rhone-Poulenc, Inc.
Agrochemical Division
P.O. Box 125
Manmouth Junction, NJ 08852

ACTIVE INGREDIENT:

11/10/86 Iprodione: 3-(3,5-dichlorophenyl)-N-(methylethyl)-
2,4-dioxo-1-imidazolidinecarboxamide 23.3%

INERT INGREDIENTS: 76.7%

BACKGROUND:

Submitted Acute Oral, Acute Dermal, Eye Irritation, Primary Dermal, Dermal Sensitization, and Acute Inhalation Toxicity Studies. Studies conducted by American Biogenics Corporation and Union Carbide's Bushy Run Research Center. Data under Accession Number 263497. Method of support not indicated.

RECOMMENDATIONS:

1. FHB/TSS finds these data acceptable to support conditional registration of this product. However please note that for future submission in the acute

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inhalation study LC₅₀ for males and females individually must be submitted. Also, in the acute inhalation study submitted that the chamber temperature is indicated in terms of degrees centigrade in narrative description, however, in Table I of results the temperature is in °F. ~~Although the smallest of the numbers on Table I are in degrees centigrade, the numbers on Table should be corrected.~~ Table should be corrected.

2. The appropriate signal word is CAUTION.

LABEL:

1. Precautionary statements must be amended to include "Harmful if swallowed."
2. Statement of practical treatment must be amended to include "If swallowed, drink plenty of water and induce vomiting by touching finger in back of throat. Never give anything by mouth to an unconscious person. Get medical attention."
3. ~~The statement "This product contains petroleum distillate" must appear on label in close proximity to ingredients statement.~~

REVIEW:

- (1) Acute Oral Toxicity Study: American Biogenics; Study No. 480-2534; April 25, 1986.

PROCEDURE:

Based on a limit test using a 5000 mg dosage, the following doses were selected for this study. Three groups consisting of five male and five female rats each received one of the following doses: 3981, 5012, or 6310 mg/kg of the test material. Observations made for 14 days postdosing. Necropsy performed on all animals.

RESULTS:

At 3981 mg/kg, 1/5 F died; at 5012 mg/kg 1/5 M and 4/5 F died, at 6310 mg/kg, 3/5 M and 5/5 F died. Toxic signs reported included squinting, lacrimation, lethargy, ataxia, prostration, slowed respiration, few stools, no stools, crusty eye, crusty nose, yellow/brown stained and or damp fur in the perianal region. Necropsy report revealed in animals that died during study red and or black discoloration of glandular stomachs; stomach, small intestines and cecum dark, white, tan, or yellow contents; a small intestine with red discoloration; a flaccid small intestine; mottled/pale livers; and a lung with diffuse, red discolorations. No abnormalities reported at necropsy of surviving animals. LD₅₀ for males reported to be 5959.8 mg/kg with 95 percent confidence limits between 5109.3 and 6951.3.

2

LD₅₀ for females reported to be 4450.7 mg/kg with 95 percent confidence limits between 3992.9 and 4960.9 mg/kg. LD₅₀ for males and females combined reported to be 5174.1 mg/kg with 95 percent confidence limits between 4523.6 and 5918.2 mg/kg.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: III - CAUTION.

(2) Acute Dermal Toxicity Study: American Biogenics Corp.; Study No. 480-2497; April 25, 1986.

PROCEDURE:

Five male and five female rabbits with intact skin each were treated with 2 g/kg of the test material under occlusive wrap for 24-hour exposure. Observations made for 14 days posttreatment. Necropsy performed on all animals.

RESULTS:

No mortalities reported. Erythema, edema, test site discoloration, possibly necrotic, desquamation and eschar formation at test site were noted. Necropsy report revealed test site crusted, thickened and red-black in color; congenital defect consisting of a missing right kidney and right uterine horn. LD₅₀ reported to be greater than 2 g/kg.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: III - CAUTION.

(3) Primary Dermal Irritation Study: American Biogenics Corp.; Study No. 480-2499; March 19, 1986.

PROCEDURE:

Six rabbit with intact skin test sites each were treated with 0.5 ml of the test material under occlusive wrap for 4-hour exposure. Observations were made for 72 hours posttreatment.

RESULTS:

No irritation reported. Primary Irritation Score reported to be zero.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: IV - CAUTION.

- (4) Eye Irritation Study: American Biogenics Corp.; Study No. 480-2498; February 6, 1986. 006078

PROCEDURE:

Six rabbits received 0.1 ml of the test material in one eye each. Observations made for 72 hours posttreatment.

RESULTS:

At 1 hour posttreatment, 5/5 had conjunctive redness (5/6 = 1); 2/6 chemosis (2/6 = 1). Irritation at cleared by 24 hours posttreatment.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: IV - CAUTION.

- (5) Dermal Sensitization Study: American Biogenics Corporation; Study No. 480-2500; March 27, 1986.

PROCEDURE:

Two groups consisting of ten guinea pigs each served as test material group and naive control group. Test group received 0.5 ml applications of the test material three times a week for a total of nine applications during induction phase. Two weeks after the ninth induction phase application a challenge dose was applied. The naive control group was treated with 0.5 g of the test material at challenge only. Observations made at 24 and 48 hours after challenge.

RESULTS:

Very slight to severe erythema noted in test animal from first through ninth induction phase application. At challenge, 3/10 animals of the test group and 3/10 of the naive control had very slight erythema. Based on data reviewed this product did not produce dermal sensitization response. However primary dermal irritation was noted.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: Nonsensitizing.

- (6) Acute Inhalation Toxicity Study: Bushy Run Research Center; Project Report No. 49-522; June 13, 1986.

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PROCEDURE:

Three groups consisting of five male and five female rats each were exposed for 4 hours to one of the following gravimetric concentrations: 2.45 ± 0.25 , 2.10 ± 0.5 , or 0.98 ± 0.09 mg/L. Mass median diameter ranged from 10.2 to 14.7 micrometers and geometric standard deviation from 3.9 to 5.1. Chamber temperature reported to range from 22 to 24 °C and relative humidity 92 to 100 percent. Observations made for 14 days postexposure. Necropsy performed on all animals

RESULTS:

At 2.10 mg/L, 2/5 M, and 4/5 F died and at 2.45 mg/L, 2/5 M, and 4/5 F died. Toxic signs reported included animals soaked with test material, ataxia, decreased motor activity, a slow or absent surface and air righting reflex, absent tail and toe pinch reflex, respiratory difficulties; periocular, perioral, and perinasal encrustation; perioral, periocular, and urogenital wetness; unkempt and discolored fur, hypoactivity. Necropsy report of animals that died during study revealed discoloration of the lungs, cervical and mediastinal lymph nodes; white or yellow fluid in esophagus/stomach; periocular encrustation and cloudiness of the eyes. Necropsy report of the surviving animals revealed thick white material in the esophagus of one male rat at 2.45 mg/L. LC₅₀ for males and females combined reported to be 2.03 mg/L with 95 percent confidence limits between 1.59 and 2.60 mg/L.

STUDY GUIDELINE: Core Minimum Data. LC₅₀ for males and females individually must be submitted.

TOXICITY CATEGORY: III - CAUTION.

10

Page _____ is not included in this copy.

Pages 6 through 7 are not included.

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.

RECOMMENDATION FOR USE

TURF:

Begin applications when conditions favor disease development or when the disease first appears unless otherwise noted.

DISEASE	INTERVAL OF APPLICATIONS	FL OZ. 1000 FT ²
Dollar Spot (Sclerotinia homoeocarpa)	GREENS AND TEES: Repeat at 14-21 day intervals as long as required,	3 - 4 NOTE: On Fairways, for Dollar Spot control use 2 FL oz/ 1,000 Ft. ²
Brown Patch (Rhizoctonia solani)	FAIRWAYS, HOME LAWNS and OTHER TURF AREAS: Repeat at 22-28 day intervals as long as required.	
Helminthosporium: Leaf Spot and Melting Out (Helminthosporium spp.)		
Fusarium Blight (Fusarium roseum)	Use only preventative foliar applications when conditions first become favorable for disease development. Two additional applications should be made at 2 to 3 week intervals.	8
Fusarium Patch (Fusarium nivale)	Repeat at 14-21 day intervals as long as required.	4-8
PACIFIC NORTHWEST ONLY (West of the Cascade Mountains).		
Gray Snow Mold (Typhula spp.) Pink Snow Mold (Fusarium nivale)	One application before first permanent snow cover. If possible, another application during a midwinter thaw.	4-8
Red Thread (Corticium)	Use as a preventative every 14 days as long as required.	4

Under severe conditions, the higher rate and/or shorter interval of applications are recommended for all diseases. Do not mow or irrigate treated areas until the foliage is completely dry, usually a 24 hour waiting period following treatment is preferred. Do not mix with any sticker, extender, or wetting agent. Do not graze animals on treated turf. Do not feed clippings from treated turf to livestock or poultry.

CONDITION OF SALE, WARRANTY, LIMITATION OF LIABILITY

This product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated on such label only when used in accordance with directions under normal use conditions. Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of Rhone-Poulenc or the seller. Buyer assumes all risks of use, storage, or handling of this material, not in strict accordance with directions given herewith. In no case shall Rhone-Poulenc or the seller be liable for consequential, special, or indirect damages such as loss of profits or values resulting from the use or handling of this product.

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