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

006241

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

## FEB 2 7 1987

## MEMORANDUM

SUBJECT: EPA File Symbol 524-EUP-AI

Partner WDG

FROM: Mary L. Waller

Technical Support Section Fungicide-Herbicide Branch

Registration Division (TS-767C).

TO:

Robert J. Taylor, PM 25 Fungicide-Herbicide Branch Registration Division (TS-767C)

APPLICANT: Monsanto Company

1101 17th Street NW. Washington, DC 20036

#### ACTIVE INGREDIENTS:

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#### RECOMMENDATION:

FHB/TSS finds the data acceptable to support registration. The signal word is "CAUTION." FHB/TSS also finds that an acute inhalation toxicity study is not required based on the registran 's statement in a June 4, 1986 letter signed by Mr. Robert Street; of Monsanto that product specifications require that no more than 0.5% of the formulation have a particle size < 150 microns and that particle size of the product ranges between 200 and 400 microns.

Regarding the dermal sensitization study, data on 524-344 that were cited on the data matrix cannot be used to support 524-EUP-AI because the two products are not substantially similar. However, if the technical used in 524-EUP-AI is a sensitizer, then the applicant can reference these data and label 524-EUP-AI as a sensitizer. If the technical is not a sensitizer, then the applicant must submit a dermal sensitization study conducted on 524-EUP-AI.

#### LABELING:

The subheading "Storage & Disposal" and the information on storage and disposal should be placed under the heading "Directions for Use" either immediately following the misuse statement or at the end of the Directions for Use.

#### REVIEW:

(1) Acute Oral Toxicity Study: Bio/dynamics, Inc.; Project No. 6694-86; August 18, 1936.

#### PROCEDURE:

Five male and five female Sprague-Dawley rats were each administered via oral intubation a single dose of 5000 mg/kg of test material in methocel. Animals were observed twice daily for 14 days. Body weights were measured prior to dosing and at 7 and 14 days. Animals were necropsied at study conclusion.

#### RESULTS:

No deaths occurred. The LD50 was reported to be > 5000 mg/kg. Toxic symptoms observed were wet rales, urinary staining, hypoactivity, and decrease in food consumption. Gross necropsy revealed two females with reddened ovaries and one female with reddened uterus.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: IV - CAUTION.

(2) Acute Dermal Toxicity Study: Bio/dynamics, Inc.; Project No. 6695-36; August 18. 1986.

#### PROCEDURE:

Five male and five female New Zealand White rabbits each received 5000 mg/kg of test material moistened with 0.9% saline applied to the clipped intact skin of the dorsal area of the trunk of each animal. The test site was covered with occlusive wrap for 24 hours. Animals were observed twice daily for mortality and at least once daily for toxic symptoms for 14 da,s. Animals were weighed prior to dosing and at 7 and 14 days. Animals were necropsied at study conclusion.

#### RESULTS:

No deaths occurred. The LD50 was reported to be > 5000 mg/kg. Toxic symptoms observed were soft stool and fecal staining clearing by day 4 and slight weight loss in some males reversing by day 7. Gross necropsy revealed discolored and red foci on lungs and one female exhibiting reddened and swollen uterus. However, these necropsy findings were reported to be normal physiological variation and similar to those observed in control animals in the laboratory.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: IV - CAUTION.

(3) Primary Eye Irritation Study: Bio/dynamics, Inc.; Project No. 6697-86; August 18, 1986.

#### PROCEDURE:

Six female New Zealand White rabbits each received 0.1 cc of test material which was placed in one eye of each animal. The other eye served as a control. Irritation was scored at 1, 24, 48, and at 72 hours and at 7 days.

### RESULTS:

Eye irritation was scored as follows: at 24 hours, corneal opacity (5/6 = 20), iris irritation (6/6 = 5), conjunctivae redness (1/6 = 2, 5/6 = 1), chemosis (4/6 = 2, 2/6 = 1), and discharge (2/6 = 1); and at 7 days, all irritation had cleared.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: III - CAUTION.

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(4) Primary Dermal Irritation Study: Bio/dynamics, Inc.; Project No. 6696-86; August 18, 1986.

## PROCEDURE:

Six New Zealand White rabbits each received 0.5 g of test material/two test sites applied to the clipped intact skin on the back of each animal. Test sites were covered with occlusive wrap for 4 hours. After exposure, the test sites were wiped free of residual test material. Skin irritation was scored at 30 minutes and at 24, 48, and 72 hours after removal of wrap.

#### RESULTS:

At 24 hours, 3/6 animals displayed very slight erythema. All irritation had subsided by 72 hours.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: IV - CAUTION.

Alachlor/ Imazaguin toxicology review
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