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

006377

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

AUG 11 1987

MEMORANDUM

SUBJECT: EPA File Symbol 2935-UUN
Nu-Zone 10ME

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

mlw 8/20/87 = 8/21/87

TO: Lois A. Rossi, PM 21
Fungicide-Herbicide Branch
Registration Division (TS-767C)

APPLICANT: Wilbur-Ellis Company
191 West Shaw Avenue, Suite 107
Fresno, CA 93704-2876

ACTIVE INGREDIENT:
Imazalil: (1-(2-(2,4-dichlorophenyl)-2-(propenyloxy)-ethyl)-1H-imidazole 10%
INERT INGREDIENTS: 90%

BACKGROUND:

The applicant has submitted an acute inhalation toxicity study and a dermal sensitization study as requested by the 10-31-86 TSS review of other acute toxicity data. The studies were conducted by Northview Pacific Laboratory, Inc. The MRID numbers are 401890-01 and -02. The method of support was not indicated.

RECOMMENDATION:

FHB/TSS finds the acute inhalation and dermal sensitization study acceptable to support registration of 2935-UNN. The signal word is CAUTION.

006377

1 of 4

LABELING:

Add the following sentences to the precautionary statements: "This product may cause an allergic skin reaction."

REVIEW:

(1) Acute Inhalation Toxicity Study: Northview Pacific Laboratory, Inc.; NVP Report number U7A009G; MRID number 401890-01; 3-4-87.

PROCEDURE:

Five male and five female Sprague-Dawley derived rats were exposed 4 hours in a 200 L chamber to a mean gravimetric concentration of 5.44 mg/L of test material. Animals were weighed prior to exposure and at 7 and 14 days. Animals were observed twice daily for the first week and once daily thereafter for 14 days. Animals were necropsied at study conclusion.

RESULTS:

No deaths occurred; therefore, it can be assumed that the LC_{50} is > 5.44 mg/L. Observations included ataxia, noisy respiration, and piloerection. Gross necropsy revealed slightly mottled lungs.

STUDY CLASSIFICATION:

Core Guideline Data. [redacted]

TOXICITY CATEGORY: Category IV - CAUTION

(2) Dermal Sensitization Study: Northview Pacific Laboratory; NVP Report number X7A069G; MRID number 401890-02; 2-20-87.

PROCEDURE:

A test group of ten Hartley guinea pigs and a positive control group of five Hartley guinea pigs received six induction treatments which were applied to a previously shaven site on each animal's shoulder and covered with occlusive wrap for six hours of exposure. Induction treatments were administered three times a week for two weeks as follows: the test group received 0.5 ml of undiluted test material and the positive control group received 0.5 ml of a 0.1% solution of 1-chloro-2,4-dinitrobenzene. Animals were placed in restrainers during exposure. Animals' shoulders were cleaned after each exposure and redepilated as needed. Two weeks

after the last induction treatment, animals were challenged for 24 hours at virgin sites. Skin irritation was scored at 24 and 48 hours.

RESULTS:

All test animals exhibited moderate erythema to erythema and cracking of the skin during induction. The positive control animals exhibited slight confluent erythema to edema and cracking of the skin during induction. At challenge, both the test animals and positive control group exhibited moderate patchy erythema to erythema with edema and cracking of the skin.

STUDY CLASSIFICATION: Core Guideline Data

TOXICITY CATEGORY: Sensitizer

Imazalil toxicology review

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Pages _____ through _____ 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

___ The document is a duplicate of page(s) _____

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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.