006373

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

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

DEC - 3 1986

MEMORANDUM

SUBJECT: EPA File Symbol 241-EOT
Squadron Herbicide

FROM: Deloris F. Graham DGF 12/15/86 CS 12/15/86
Technical Support Section
Fungicide-Herbicide Branch
Registration Division (TS-767C)

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

APPLICANT: American Cyanamid Company
Agricultural Division
P.O. Box 400
Princeton, NJ 08540

ACTIVE INGREDIENT:
Ammonium salt of imazaquin 3.84%
Pendimethalin 21.85%
INERT INGREDIENTS: 74.31%

BACKGROUND:

Submitted Acute Inhalation and Dermal Sensitization Studies to support conditional registration of this product. Studies conducted by Biosearch Incorporated and Dawson Research Corporation. Data under Accession No. 265326. Method of support not indicated.

RECOMMENDATION:

FHB/TSS finds these studies acceptable to support conditional registration of this product.

006323

1 of 1

LABEL:

1. In regard to Acute Inhalation hazard the precautionary statements must include "Harmful if inhaled. If inhaled remove victim to fresh air. Get medical attention."

2. In regard to Dermal Sensitization no labeling required.

REVIEW:

(1) Acute Inhalation Toxicity Study: Biosearch Incorporated; Project No. 86-5081A; September 3, 1986.

PROCEDURE:

Ten male and ten female rats were exposed for 4 hours to a gravimetric concentration of 2.74 mg/L (nominal = 16.12 mg/L). Temperature ranged between 17.5 and 24.0 °C with relative humidity between 56 and 68%. Mass median aerodynamic diameter reported to be 2.19 ± 1.85 micrometers. Observations made for 14 days postexposure. Necropsy performed on all animals.

RESULTS:

No mortalities reported. Toxic signs reported included nasal discharge, wet muzzles, nasal staining, yellow stained coats, and decrease in weight in one animal. Necropsy report revealed yellow tail and slightly congested lungs. LC_{50} reported to be greater than 8.23 mg/L based on Scepter and 2.67 mg/L based on Prowl. However, the gravimetric concentration for the formulated product was reported to be 2.74 mg/L. Since there were no deaths reported it is concluded that the LC_{50} is greater than 2.74 mg/L.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: III - CAUTION.

(2) Dermal Sensitization Study: Dawson Research Corporation; DRC 4900; June 15, 1986.

PROCEDURE:

Two groups consisting of ten male guinea pigs each received 0.4 ml application of one of the following substances: test material or 0.1% dinitrochlorobenzene (DNCB) in 50% ethanol (positive control), three times a week for 3 weeks during induction phase. Two weeks after final induction

phase application a challenge dose was applied to test mterial group, DNCB group, and a naive control group. Observations made at 24 and 48 hours after each application.

RESULTS:

One animal reported to have died on day 28 due to cystitis and not treatment related. Slight to moderate erythema noted in test group beginning day 9 through day 21 and sloughing with dryness of skin also noted during induction phase. No irritation reported in test group at 24 and 48 hours post-challenge.

Slight erythema reported in DNCB (positive control) group beginning day 11 through day 21 with sloughing, dryness of skin, and scabbing noted during induction phase. Very slight erythema reported in positive control group at 24 and 48 hours after challenge dose confirming positive sensitization reponse. No irritation produced in naive control at challenge dose.

Since no irritation was produced in test group or naive control group at challenge it is concluded that this product did not produce a sensitizing response.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: Nonsensitizing.

Pendimethalin/
Imazaquin toxicology review

Page _____ is not included in this copy.

Pages 4 through 7 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) _____

___ The document is not responsive to the request

• 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.
