

7-30-87



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

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: EPA File Symbol 279-GNTR
Command

FROM: Deloris F. Graham *DGH 7/30/87*
Technical Support Section
Fungicide-Herbicide Branch
Registration Division (TS-767C)

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

E 7/30/87

APPLICANT: FMC Corporation
Agricultural Chemical Group
200 Market Street
Philadelphia, PA 19103

ACTIVE INGREDIENT:
2-(2-chlorophenyl)methyl-4,4-dimethyl-
3-isoxazolodinone 47.1%
INERT INGREDIENTS: 52.9%

BACKGROUND:

Submitted Acute Inhalation Study to fulfill acute toxicity data requirements for conditional registration. Study conducted by Hazleton Laboratories America, Inc. Data under EPA MRID No. 400593-01. Method of support not indicated.

RECOMMENDATION:

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

2. The appropriate Toxicity Category is III - CAUTION.

LABEL:

The inhalation statement submitted on the label included in this submission is acceptable.

REVIEW:

- (1) Acute Inhalation Toxicity Study: Hazleton Laboratories; HLA Study No. 104-231; January 21, 1987; EPA MRID No. 400593-01.

PROCEDURE:

Four groups consisting of five male and five female rats each were exposed for 4 hours to one of the following gravimetric (gas chromatographic) concentrations: 2.32 ± 0.28 (1.94 ± 0.10), 0.99 ± 0.24 (0.90 ± 0.20), 3.22 ± 0.42 (2.51 ± 0.24), or 7.25 ± 0.96 (5.49 ± 0.24) mg/L. Mass median aerodynamic diameter ranged between 2.74 and 3.14 μ m. Temperature and relative humidity reported to range between 71 to 76 °F and 46 to 72 percent, respectively. Observations made for 14 days postexposure. Necropsy performed on all animals.

RESULTS:

At 2.32 ± 0.28 mg/L, 1/5 F died; at 3.22 ± 0.42 mg/L, 5/5 M and 5/5 F died; at 7.25 ± 0.96 mg/L, 5/5 M and 5/5 F died. Toxic signs reported include wet hair coat, eye squint, prostration, languid behavior, white froth around nose, dyspnea, rough hair coat, urine-stained fur, wheezing, red crust around the nose, red discharge around eye, and hunched appearance. The necropsy report revealed failure of lung to collapse; lung - mottled, dark; darkened nasal turbinates; irregularities of the eye; liver - pale, mottled; pale material in the oral cavity for animals found dead. LC₅₀ for males reported to be 2.2 mg/L (with 95% confidence limits between 1.8 and 2.7 mg/L). LC₅₀ for females reported to be 2.1 (1.7 to 2.6) mg/L. LC₅₀ for males and females reported to be 2.2 (1.9 to 2.5) mg/L.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: III - CAUTION.