US EPA ARCHIVE DOCUMENT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: January 19, 1982

SUBJECT: EPA Registration Number 100-597 (1), Dual 8E
EPA Registration Number 100-610 (2), Ontrack 8E

FROM: Deloris F. Graham DFG 1/22/82
FHB/TSS
E 1/22/82

TO: Richard Mountfort
Product Manager (23)

Applicant: CIBA-GEIGY Corporation
P. O. Box 11422
Greensboro, NC 27409

(1) Active Ingredients:
Metolachlor:2-chloro-N-(2-ethyl-6-methylphenyl)
-N-(2-methoxy-1-methylethyl)acetamide 86.4%
Inert Ingredients: 13.6%

(2) Active Ingredients:
Metolachlor:2-chloro-N-(2-ethyl-6-methylphenyl)
-N-(2-methoxy-1-methylethyl)acetamide 86.4%
Inert Ingredients 13.6%

Background

Submitted an Acute Inhalation Study on Dual 8E. Study conducted by Toxigenics, Inc. Data under accession number 246376. Method of support not indicated.

Recommendation

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

Label

1. Based on the inhalation data, the statement "Harmful if inhaled. Avoid breathing spray mist." must appear on label under precautionary statement.

Review

1. Acute Inhalation Toxicity Study: Toxigenics, Inc.; Study No. 420-0648; September 10, 1981.

Procedure: Four groups: Group (I) consisting of 5M and 5F rats were exposed to 2.73 mg/l. Group (II) consisting of 10F rats were exposed to 3.83 mg/l. Group (III) consisting of 10F rats were exposed to 4.83 mg/l. Group (IV) consisting of 10F rats were exposed to 6.09 mg/l of the test

material. A 500 L stainless steel chamber was used. Adequate chamber conditions maintained. Average mass median diameter for all groups 2.26 microns and geometric standard duration 1.76 microns. Average temperature 74.0°.

Results: At 2.73 mg/l, 3/5 F died; at 3.83 mg/l, 3/10 F died; at 4.83 mg/l, 3/10 F died; at 6.09 mg/l, 4/10 F died. Damp fur, red stained fur, crusty eye, dyspnea, poor coat quality, crusty nose, crusty muzzle, yellow/brown stained fur; lung - discoloration, multiple, focal, tan, raised; stomach - discoloration, glandular, focal, black; liver - discoloration, diffuse, pale, crusted; prostration; tail - exudation, diffuse, tan, crusted, raised; cecum - discoloration, diffuse, red; alopecia; ears - alopecia, diffuse; skin - alopecia, diffuse entire body; eye - opacity, diffuse, white. LC_{50} for males greater than 2.73 mg/l. LC_{50} for females greater than 6.09 mg/l.

Study Classification: Core Guideline Data

Toxicity Category: III - CAUTION