



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

4-28-81

APR 28 1981

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: EPA Reg.#100-607; Ridomil 2E Fungicide; Request for amended registration of Ridomil 2E to permit use in conifer nurseries.
CASWELL#375AA

FROM: William Dykstra, Toxicologist
Toxicology Branch, HED (TS-769)

WJD JDC
4/16/81

TO: Henry Jacoby (21)
Registration Division (TS-767)

WAB

Recommendation:

1) The amended registration can be toxicologically supported.

Review:

1. Memo of 6/15/79 from William Woodrow to Henry Jacoby.
2. Memo of 3/19/81 from William Dykstra to Henry Jacoby.
3. Summary of Toxicity Studies:

Toxicity Studies on Ridomil 2E

°Acute Oral LD₅₀ in Rats: 2342 mg/kg for males and 1520 mg/kg for female, 1980 mg/kg combined; Category III.

°Acute Dermal LD₅₀ in Rabbits: 3571 mg/kg; Category III.

°Primary Eye Irritation in Rabbits: Corneal opacity and conjunctival irritation persisting through 7 days; Category I.

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°Primary Skin Irritation: Draize score 0.5; Category IV.

°An Acute Inhalation Study in Rats: Was not acceptable because the LD₅₀ was not determined.
However, no deaths at 3.38 mg/L for 6M & 6F rats; Category III.

Toxicity Studies on Technical Metalaxyl

°Acute Oral LD₅₀ in Rats: 669 mg/kg; Category III.

°Acute Dermal LD₅₀ in Rabbits: Greater than 6000 mg/kg; Category III.

°Acute Dermal LD₅₀ in Rats: 3170 mg/kg; Category III.

°Skin Irritation in Rabbits: Draize Index = 0.1/8, mild skin irritants; Category IV.

°Primary Eye Irritation in Rabbits: Corneal involvement, completely cleared in 3 days; Category II.

°Skin Sensitization in Guinea Pigs: Negative.

°3-Month Dietary Study in Rats: NOEL = 250 ppm.

°90-Day Dietary Study in Dogs: NOEL = 250 ppm.

°Teratology Study in Rats: Not teratogenic at doses up to 120 mg/kg.

°Salmonella/Mammalian Microsome Mutagenicity Study: Not mutagenic.

°Mouse Dominant Lethal Mutagenic Study: Not mutagenic.

°21-Day Subacute Dermal in Rabbits: NOEL = 1000 mg/kg/day

TS-769:th:TOX/HED:WDykstra:4-16-81:#5