US ERA ARCHIVE DOCUMENT

142-1519

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

000759

DATE

August 3, 1979

RUD IECT.

EPA Reg.#400-136; Vitavax HBM-25 for Soybeans; CASWELL#165A) Acc.#238226

FROM:

William Dykstra, Ph.D Toxicology Branch (TS-769) WMP 8/3/19 WSW

Percent Weight

· TO:

R. Panebrano Product Manager#21

RECOMMENDATIONS:

1. Captan is under review as an RPAR Chemical.

2. The toxicity data submitted are acceptable as Core-Minimum Data and support the conditional registration request. No additional toxicity data are required for this action.

HUMAN HAZARD SIGNAL WORD: DANGER

Name: Vitavax HBM-25

Ingredient

carboxin
captan
Inerts

Proposed Uses

1. Vitavax HBM-25 is a ready-to-use seed treatment which combines the systemic action of carboxin with the surface action of captan to control various seed and seedling diseases. In addition, the essential soybean micronutrient molybolenum is present.

Vitavax HBM-25, as a planter box application, should be applied at the rate of 2 - 4 ounces per bushel of seed.

Do not use treated seed for food, feed or oil purposes. Do not graze or feed livestock on hay grown from treated seed.

Review

 Tolerances established for carboxin on soybeans and other racs under 40 CFR 180.301. Tolerances established for captan on soybeans and other racs under 40 CFR 180.103.

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Rabbit Eye Irritation Study (FDRL, Lab. No. 5186e, Aug. 16, 1976)

Test Material: Vitavax HBM-25

0.1 ml of test material was instilled into one eye of each of6NZW rabbits. The ocular reactions were observed and scored at 24, 48, and 72 hours and 7 days after instillation of the test material.

Results: Corneal opacity in 5/6 rabbits at day 7. Iridial and conjunctival effects were observed in all rabbits. Iridial effects cleared in 2 rabbits by day 7. Conjunctival effects persisted throughout this period.

Classification: Core-Minimum Data; TOX Category I: DANGER

Primary Skin Irritation Study with Raobits (FDRL, Lab. No. 5483, May 18, 1977)

Test Naterial: Vitavax HBM-25

0.5 gm f test material was applied to intact and abraded skin sites on the fur clipped trunk of 6 NZW rabbits under an impervious cuff for 24 hours. Observation and scoring was at 24 and 72 hours after exposure.

Results: P.I. = 0.46; er animal, and abraded skin . any time.

· · s observed in the intact skin of one nimals at the 24 hour reading. At the

Classification: Core-Minimum Data; TOX Category IV: CAUTION

Approximate Acute Oral Toxicity in Rats (FDRL, Lab. No. 5483, 6/28/77)

Test Material: Vitavax HBM-25

Five groups of 5 male and 5 female Adult hooded rats BLU: (LE) BR Long-Evans were intubated with 2.0, 3.5, 6.5, 8.5 and 12.5 gm/kg of test material. Observation for 14 days.

Results: LD50 = 5.4 ± 0.8 gm/kg (both sexes)

Toxic Signs: slight decreased activity, ataxia, diarrhea, urinary, uncon-

tinence

Body Weight: Not reported

Necropsy: dark liver, mottled kidneys, lungs mottled

Classification: Core-Minimum Data; TOX Category IV: CAUTION

5. Acute Dermal Toxicity Study in Rabbits (FDRL, Lab. No. 5483, 6/28/77)

Test Material: Vitavax HBM-25

Four groups of 6 (3M & 3F) NZW rabbits received dermally doses of 0.2, 2.0, 5.0, and 10.0 gm/kg of test material on the fur clipped trunk under an impervious cuff for 24 hours. Observations for 14 days.

Results: No deaths, LD50 > 10 gm/kg

Toxic Signs: decreased activity (occasionally severe)

Body Weight: Not reported

Necropsy: Not reported

Classification: Core-Minimum Data; TOX Category III: CAUTION

6. Acute Inhalation Study in Rats (FDRL, LB. No. 5483, 10/18/77)

One group (5M & 5F) of Adult hooded rats BLU: (LE) BR Long-Evans were exposed to inhalation of 20 mg/L of test material for one hour. Observation for 14 days.

Results: No deaths, LC50 > 20 mg/L

Toxic Signs: None

Body Weight: Not reported

Necropsy: Not reported

Classification: Core-Minimum Data; TOX Category IV: CAUTION

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3/8/79

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