UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: November 3, 1977

SUBJECT: Substitution of Baygon for Kepone in three ant trap products of O. E. Linck Co., Clifton, New Jersey, EPA Reg. No. 506-RGA, -RGT, and-RGI, Caswell #508

FROM: Toxicology Branch
Registration Division

003710

TO: Product Manager No. 12
Insecticide-Rodenticide Branch

Thru: Reto Engler, Ph.D
Toxicology Branch

Recommendations:

1. Include statement on label regarding proper disposal of used and unused containers.

2. Accept substitution (as requested by above registrant) of 0.25% Baygon for Kepone in the three ant trap products. Inaccessibility of the formulated bait is considered sufficient to obviate need for acute toxicity data concerning this formulation.

Review of Toxicity Considerations:

1. Description

Product consists of a small metal can (net wt. 1/6 oz.) containing small perforations to admit ants to the bait. The test material (bait) consists [redacted] active component 0.25% Baygon, a carbamate insecticide. The child resistant container would permit vaporization (as in case of fire) and allows the spreading of bait by ants while returning to their nest areas, where the significant insecticidal effect accumulates. Intended for use in and around residential, commerical, and agricultural buildings; for homeowner use, lawn and garden use, and general use.

2. Toxicity Data. Abstracted from Baygon Toxicity Review (K. L. Bailey, in progress).

-Oncogenic and teratogenic studies, altho of supplementary value, do not at this time indicate concern.

-Mutagenicity. Data inadequate.

-Neurotoxicity. Not observed in adult chickens subjected to either oral, intraperitoneal, or diet studies.

-Reproduction. NEL for rats = 250 ppm. (250 ppm - see doc 003709).

3. Acute Inhalation Toxicity (K. P. DuBois and F. K. Kinoshita; Accession no. 093225, study no. 24684.)

EPA FORM 1320-6 (REV. 3-76)

INFORMATION WHICH MAY REVEAL AN INERT INGREDIENT IS NOT INCLUDED

A 17.3% liquid Baygon formulation was investigated by exposing male mice and female rats in a dynamic-flow gassing chamber into which aerosols of the formulation were dispersed for 30 minutes.

LC_{50} (mice) ≈ 0.6 mg/L (analytical concentration)
LC_{50} (rats) ≈ 0.9 mg/L (analytical concentration)

Classification:

Supplementary Data; category not assigned.

Evaporation (as in a fire) of one can of fresh, unused bait material (0.25% Baygon) into a room 3 meters on a side, would produce a maximum of ≈ 0.005 mg/L, assuming complete evaporation and no decomposition, neither of which are valid assumptions. Altho the reported LC_{50} for Baygon (17.3%) would place it in Tox. Category II, the bait material as formulated (0.25%) is not intended for spraying.. When used in the amounts recommended by the product label, accidental exposure to a significant quantity of Baygon is unlikely.

4. RPAR criteria are not exceeded.

D L Van Orman

D. G. Van Ormer, Ph.D

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