

Memorandum

Date: 5 October 1983

Subject: EPA Reg. No. 239-2475 ORTHO CHINCH BUG KILLER  
Caswell #845A  
In 8-10-83; record no. 102564

From: B. T. Backus  
IRB/TSS

To: Mr. William Miller  
Product Manager 16

Registrant: Chevron Chemical Co.  
Ortho Consumer Products Division  
940 Hensley St.  
Richmond, CA 94804-0036

Active Ingredient:  
O,O,O,O-Tetrapropyl dithiopyrophosphate.....13%  
Deodorized Kerosene.....76%  
Inert Ingredients:.....11%

Background:

In an inhalation study dated Feb. 13, 1978 for this product no data were given regarding actual concentration of product to which subjects were exposed, or regarding particle sizes. The registrant has now sent in a study in which test conditions (but without rats) were duplicated and this information was obtained.

Comments and Recommendations:

1. With the additional information received 7-28-83, the study is now acceptable and adequate.
2. Since the measured gravimetric concentration of the aerosol was 5.0 (+ 0.4) mg/L for a one-hr exposure, the product is in toxicity category III by the inhalation exposure route.
3. Precautionary labeling should include: "May be harmful if inhaled. Avoid inhalation."

Review:

The following study was conducted on the product registered under EPA Reg. No. 239-2475. Study was conducted at the Chevron Environmental Health Center, P.O. Box 1272, Castro and Midway Streets, Richmond, CA 94802. Study was received 7-28-83, and is in Acc. 250838.

1. Acute Inhalation LC<sub>50</sub> - rat. (additional data). SOCAL 1095A; dated June 22, 1983.

Procedure: Test conditions of a previous study (SOCAL 1095; dated Feb. 13, 1978) were duplicated, except no rats were exposed. In the previous study, nominal concentration was 37.17 mg/L; in this run nominal concentration was 28 mg/L.

Results: Aerosol concentration measured as 5.0 ( $\pm$  0.4) mg/L. Mass median aerodynamic diameter reported as 2.47  $\mu$ m, with a geometric standard deviation of 2.20.

In the previously reviewed study (SOCAL 1095/28:10; dated Feb. 13, 1978, in Acc. 241027) there were no deaths following a one-hour exposure to a nominal concentration of 37.17 mg/L.

Study Classification: Core Minimum Data (complete study with information in Acc. 241027 & 250838).

Product Classification: Tox. Cat. III (exposure was for one-hr to 5.0 $\pm$  0.4 mg/L).

Byron T. Backus 10/05/83

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