1. CHEMICAL: HOE-33171 (Whip)

2. FORMULATION: Technical

3. CITATION: Atkins, E.L. 1983. Bee adult toxicity dustinng test. Section C2: 16 in EPA Acc. No. 071796. Subm. by Amer. Hoechst Corp., Agric. Div., Somerville, N.J., Aug. 4, 1983.

4. REVIEWER: Allen W. Vaughan
Entomologist
EEB/HED

5. DATE REVIEWED: October 20, 1983

6. TEST TYPE: Toxicity to honey bee

A. Test Species: Honey bee (Apis mellifera)

7. REPORTED RESULTS: HOE-33171 was determined to be relatively non-toxic to honey bees in a laboratory acute contact toxicity test. When test bees were exposed to direct treatment at 100 micrograms/bee, there was no significant mortality.

8. REVIEWER'S CONCLUSIONS: This study is scientifically sound, and shows HOE-33171 to be relatively non-toxic to honey bees.

Materials and Methods

Test Procedures

A bell-jar vacuum duster is used to apply the pesticide, mixed with a prolite dust diluent, to the test bees. Dosages of dust are weighed, bees are aspirated into dusting cages and treated, and bees are then transferred into holding cages. Observations are recorded at 24, 48, 72, and 96 hours.

Statistical Analysis

Analysis of the data was performed to enable the authors to determine LD50 values of pesticides from either dosage-mortality curves or from LC50 values.

Discussion/Results

See "Reported Results," above.

Reviewer's Evaluation

A. Test Procedure

Procedures were sound.

B. Statistical Analysis

Analysis as performed by the authors was assumed to be valid. No validation was performed by EEB.

C. Discussion/Results

This study is scientifically sound.