

US EPA ARCHIVE DOCUMENT

File No. 128850

DATA EVALUATION RECORD

1. CHEMICAL: HOE 39866
2. FORMULATION: Technical - 95.3%
3. Citation: Atkins, E.L. 1984. Bee adult toxicity dusting test. Tab Number C2:12 in EPA Accession Number 072967. Submitted by American Hoechst Corp., Somerville, NJ, September 26, 1984.
4. REVIEWED BY: Allen W. Vaughan
Entomologist
EEB/HED
5. DATE REVIEWED: November 13, 1984
6. TEST TYPE: Honeybee acute contact LD₅₀
7. REPORTED RESULTS: When test bees were exposed to direct application in a laboratory test, HOE-39866 was not toxic at 345.5 microgra. per bee.
8. REVIEWER'S CONCLUSIONS: The study is scientifically sound, shows HOE 39866 to be relatively non-toxic to honeybees. This study fulfills the guideline requirement for a honeybee acute contact LD₅₀ study.

9. MATERIALS AND METHODS

A. Test Procedures:

Test material is mixed with a non-toxic pyrolite dust diluent and applied to the bees using a vacuum apparatus. Bees are then transferred to holding cages and maintained in the laboratory. Mortality evaluations are made at 24, 48, 72, and 96 hours after treatment.

B. Statistical Analysis:

No analysis was performed, as mortality values were not high enough to allow determination of an LD₅₀.

10. DISCUSSION/RESULTS:

HOE 39866 was determined to be nontoxic to honeybees at a very high rate of application. Also, no stomach poison effect was evident.

11. REVIEWER'S EVALUATION:

A. Test Procedures:

Procedures were sound.

B. Statistical Analysis:

None reported.

C. Discussion/Results:

This study is scientifically sound.

D. Conclusions:

A. Category: Core

C. Rationale: Fulfills guideline requirements.

D. Repairability: N/A

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