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SIGNATURE:

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DATE:

PM 300 08/20/82 CASE GS0106 ETHOPROP Ethoprop (0-ethyl S,S-dipropyl phospho CHEM 041101 DISC 40 TOPIC 05050045 RRANCH EEB FORMULATION 90 - FORMULATION NOT IDENTIFIED FICHE/MASTER ID 00043714 CONTENT CAT 11 MRID 44262001 Atkins, E.L.; Kellum, D.; Neuman, K.J.; et al. (1975) Effect of Pesticides on Apiculture: Project No. 1499. (Unpublished study received Dec 2, 1976 under 10182-EX-3; prepared by Univ. of California -- Riverside, Citrus Research Center and Agricultural Experiment Station, Dept. of Entomology, submitted by ICI Americas, Inc., Wilmington, Del.; CDL:095996-D) SUBST. CLASS = S. OTHER SUBJECT DESCRIPTORS SEC: EEB -40-05103545 START-DATE 1/20/83 END DATE 1/20/83 DIRECT RVW TIME = (MH) REVIEWED BY: Allen W. Vaughan TITLE: Entomologist ORG: EEB/HED-LOC/TEL: Crystal Mall 2 / 79307 DATE: 0/1/83 allen W. Van SIGNATURE: APPROVED BY: TITLE: ORG: LOC/TEL:

MRIO 44262001

- 1. CHEMICAL: Ethoprop (Mocap)
- 2. FORMULATION: Technical
- Atkins, E.L.; Kellum, D.; Neuman, K.J.; et al. (1975) Effect of Pesticides on Apiculture: Project No. 1499. (Unpublished study received Dec 2, 1976 under 10182-EX-3; prepared by Univ. of California—Riverside, Citrus Research Center and Agricultural Experiment Station, Dept. of Entomology, submitted by ICI Americas, Inc., Wilmington, Del.; CDL:095996-D)

FICHE/MASTER ID 00043714

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

- 5. DATE REVIEWED: January 20, 1983
- 6. TEST TYPE: Bee toxicity
 - A. Test species: Honey bee (Apis mellifera)
- 7. REPORTED RESULTS: Ethoprop (Mocap) was determined to be moderately toxic to honey bees in a laboratory acute contact toxicity test (LD50 = 5.56 micrograms per bee.)
- 8. <u>REVIEWER'S CONCLÚSIONS</u>: This study is scientifically sound, and shows ethoprop to be moderately toxic to honey bees.

Materials and Methods

Test Procedures

A bell-jar vacuum duster is used to apply the pesticide, mixed with a pyrolite 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 12, 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. The slope value was also obtained from the dosage-mortality curve.

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.