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| CHEM 034401 | aleo (| 1,2-dipromo-2, | 2-dichloroethyl d | |
| BRANCH EES | DISC 55 TOPIC 551500 | 45 | | |
| FORMULATION 1 | 2 - EMULAIFIABLE CONC | ENTRATE (EC OR | £) | .4 |
| FICHE/MASTER | 10 00037799 CBST | ENT CAT 51 | • | |
| No. 8577. | (1961) hee Poisoning (Unpublished Study Repared by Pashington Corp., Kanses City, Mo | ecoived Mar 25 State Univ., s | ubmitted by Mobay | . 10 |
| SUBST. CLASS | = S. | | | , |
| DIRECT RVM TI | (ME = (MH) START | -DATE 8/3/82 | END DATE 8/3/82 | |
| REVIEWED BY: TITLE: ORG: LOC/TEL: | Allen W. Vaughan Entomologist EEB/HED Crystal Mall / 79307 | | | |
| SIGNATURE: | allen W. Vaugh | | DATE: 8/11/82 | |
| APPROVED BY: TITLE: ORG: LOC/TEL: | | | | |
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- 1. Chemical: Dibrom (naled)
- 2. Formulation: 20% WP, 8 lb/gal E
- 3. <u>Citation</u>: Johansen, C. 1961. Bee poisoning investigations, 1961. Report No. 8577. (Unpublished study rec'd. Mar. 26, 1975 under 3125-EX-119; prepared by Wash. St. Univ., subm. by Mobay Chemical Corp., Kansas City, Mo.; CDL: 094390 I) FICHE/MASTER ID 00037799.
- 4. Reviewer: Allen W. Vaughan Entomologist EEB/HED
- 5. Date Reviewed: August 3, 1982
- 6. Test Type: Toxicity to bees
 - A. Test species: Honey bee

(Apis mellifera)

- 7. Reported Results: Dibrom is highly toxic to bees, but residual toxicity is short-lived (less than 24 hr.) Dibrom WP has a greater residual toxicity than the E formulation.
- 8. Reviewer's Conclusions: This study is scientifically sound, and shows naled to be highly toxic to honey bees, but with a short lived residual toxicity.



Materials and Methods

Test Procedures

Treatments were made by hand to small plots of alfalfa. Cages of bees were placed in the plots prior to treatment. At intervals after treatment, foliage samples from each plot were placed in cages and the cages were loaded with bees. Bee were checked for mortality after 24 hours.

Statistical Analysis

None reported.

Discussion/Results

At 1 lb AI/A, both dibrom formulations caused 100% mortality of bees treated during application. All bees were dead within 30 minutes. Three hour residues of the WP formulation (1 lb AI/A) caused 100% mortality, while residues of the E formulation (same time and rate) caused 59% mortality. 24-hr. residues were not toxic to honey bees.

Reviewer's Evaluation

A. Test Procedures

Procedures were sound.

B. Statistical Analysis

None reported

C. Discussion/Results

This study is scientifically sound