DATA EVALUATION RECORD

STUDY 13

CHEM 067710 DPX-MP062 Non-guideline Study
CAS No. 144171-61-9
FORMULATION--06--WETTABLE POWDER

STUDY ID 44477310
Vincent, D. R. and K. T. McCooey. 1997. Field dissipation of DPX-JW062 (racemic mixture of DPX-KN128 [insecticidally active enantiomer] and IN-KN127) in cabbage and lettuce following application of DPX-JW062 experimental insecticide at maximum label rates. DuPont Study Number: AMR 3294-95. Unpublished study performed by E. I. du Pont de Nemours and Company, Wilmington, DE; McKenzie Laboratories, Inc., Phoenix, AZ; and Morse Laboratories, Inc., Sacramento, CA; and submitted by E. I. du Pont de Nemours and Company, Wilmington, DE.

STUDY ID 44477313
Lyle, T. T. and J. W. James. 1997. Independent laboratory validation of a proposed tolerance enforcement analytical method for the determination of DPX-KN128/IN-KN127 residues in water by GC/ECD. DuPont Project ID: AMR 4626-97. Unpublished study performed by EN-CAS Analytical Laboratories, Winston-Salem, NC; and submitted by E. I. du Pont de Nemours and Company, Wilmington, DE.

STUDY ID 44477314
James, J. W. 1997. Independent laboratory validation of a proposed environmental chemistry method for the determination of DPX-KN128, IN-KN127 and IN-JT333 residues in soil using GC/MSD. DuPont Project ID: AMR 4627-97. Unpublished study performed by EN-CAS Analytical Laboratories, Winston-Salem, NC; and submitted by E. I. du Pont de Nemours and

DIRECT REVIEW TIME = 139 hours

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This non-guideline field dissipation study was conducted at the request of EFED in order to

1.) obtain information on the amount of DPX-JW062 intercepted by cabbage and lettuce leaf plant canopies, and

2.) assess the transport of residues from plant surfaces to soil.

The study period (45 and/or 63 days) was too short to obtain enough data to calculate plant or soil half-lives.

REVIEWER'S CONCLUSIONS

Non-Guideline Field Dissipation - Terrestrial

1. In this study approximately 36.5 $\pm$ 22.4% (determined from the concentration in soil in ug/g) to 51.4 $\pm$ 17.3% (determined from the total mass in soil in ug) of the applied DPX-JW062 was intercepted by the lettuce or cabbage plant canopy. The percent interception was determined by comparing the amount of DPX-JW062 detected in this study and a similar study performed on bare-ground (DER for Study 11, MRID 44477312).

2. At Site 1 (lettuce in Florida), DPX-JW062 may have washed off the plant surfaces during rain or aerial irrigation events. The total amount[1] of residues in lettuce plants declined from 26000 ug to 8800 ug between day 28 and 63. This decrease was attributed to six precipitation events that occurred between Days 30 and 42, which averaged 0.76

[1] Calculated by multiplying the fresh weight of plants times the concentration in ug/g.