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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JUN 4 1993

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Iprodione Reregistration: List B Chemical (Chemical No. 109801; Case No. 2335). Rhone-Poulenc: Octanol/Water Partition Coefficient (GLN 63-11). (MRID No. 42533601; CBRS # 11581; DPBARCODE: D189210)

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THRU: William J. Hazel, Ph.D., Section Head
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Rhone-Poulenc has submitted (MRID 425336-01) data supporting reregistration of iprodione 95% T/MP (EPA Reg. No. 264-452) regarding octanol/water partition coefficient (GLN 63-11). The performing laboratory was Battelle, Columbus, OH.

Registrant Response Regarding Octanol/Water Partition Coefficient:

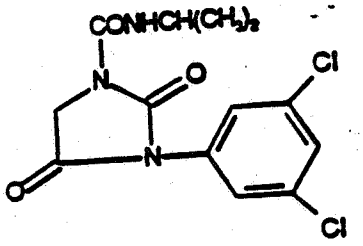
In response to the Iprodione Phase 4 Review dated 3/15/91 and the subsequent DCI, Rhone-Poulenc has submitted product chemistry data regarding octanol/water partition coefficient. The test substance for this study was iprodione (3-(3,5-dichlorophenyl)-N-isopropyl-2,4-dioxoimidazolidine-1-carboxamide) Lot EA2002SD9 pure active ingredient with 99.7% purity. The octanol/water partition coefficient of iprodione at 25 °C ± 1 and at different pHs was determined by OECD method No. 107. Both aqueous and octanol phases were analyzed by HPLC/UV. The partition coefficient K_{OW} of

iprodione at two concentrations (270 μg/ml and 2700 μg/ml) at pH 3, pH 5, and pH 7 was determined. Iprodion was unstable at pH 7. Equilibration was achieved within 3 hours. The partition coefficient K_{ow} was not affected by pH (K_{ow} average of 974.7 at pH 3 and 1006 at pH 5).

Conclusion/recommendation

The data gap to support reregistration of Rhone-Poulenc's iprodione 95% T/MP (EPA Reg. No. 264-452) regarding octanol/water partition coefficient (Guideline No. 63-11) has been resolved.

The chemical structure of iprodione is given below.



cc: Iprodione S.F., R.F., F. Toghrol, List B File, F. Chow (HED/CCB). RDI: W. Hazel (6/3/93): M. Metzger (6/3/93)
H7509C:CBRS:F.Toghrol:F.T.:RM:804B:CM#2:(703)305-7887:5/21/93.