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HEALTH EFFECTS DIVISION
SCIENTIFIC DATA REVIEWS
EPA SERIES 361

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: RfD/Peer Review Report of Fenamiphos: Highlights

CASRN. 2224-92-6
EPA Chem. Code: 100601
Caswell No. 453A

FROM: George Z. Ghali, Ph.D. *G. Ghali* 5.20.93
Manager, RfD/Peer Review Committee
Health Effects Division (H7509C)

TO: James Kariya
Science Analysis Branch
Health Effects Division (H7509C)

The Health Effects Division RfD/Peer Review Committee met on May 20, 1993 to discuss and evaluate the toxicology data submitted in support of Fenamiphos re-registration and to re-assess the Reference Dose (RfD) for this chemical.

The Committee recommended that a Reference Dose (RfD) should be established on the basis of a NOEL of 0.01 mg/kg/day for plasma cholinesterase inhibition observed at 0.03 mg/kg/day in a long-term feeding study in dogs. An uncertainty factor (UF) of 100 was used to account for the inter-species extrapolation and intra-species variability. On this basis the RfD was calculated to be 0.0001 mg/kg/day.

The chemical was classified in as a "Group E" based on adequate studies in two animal species. There was no evidence to suggest that the chemical is a developmental toxicant. The Committee discussed the acute toxicity issue but no conclusion was made regarding the hazard of a one-time or one-day exposure for other toxicological end-points.

Please note that a full and detailed RfD meeting report will follow soon.



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Chemical: Fenamiphos

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