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

MAY 22 1987

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OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Methamidophos (Monitor). Verification of RfD

Tox. Chem. No. 378A

FROM: Pamela M. Hurley, Toxicologist Pamela M. Hurley
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Hazard Evaluation Division (TS-769c)

TO: W.H. Miller/ M.A. Mautz
Product Managers (16)
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THRU: Edwin R. Budd, Section Head
Section II, Toxicology Branch
Hazard Evaluation Division (TS-769c)

Budd 5/21/87

The RfD document on Methamidophos (Monitor) was submitted to the Agency RfD Committee on May 20, 1987 and was verified. The Reference Dose to be used in calculating the Maximum Daily Intake is now set at 0.00005 mg/kg/day, based upon results obtained from the one-year dog study conducted with Methamidophos. The effect of concern in the study was inhibition of brain cholinesterase. A NOEL was not established for this effect since it was noted at the lowest dose level tested in the study (2 ppm or 0.05 mg/kg/day). Therefore, an uncertainty factor of 1000 was used to account for the facts that brain cholinesterase is considered to be a systemic effect, that inter- and intraspecies differences need to be accounted for and that a NOEL was not established in the study.

In answer to your question concerning whether or not this study satifies regulatory requirements, the Committee agreed that although a NOEL was not established, the study will still satisfy the regulatory requirements for a chronic dog study since the data obtained from it can be used in setting tolerances.

cc: K. Locke