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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D C

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

DATE July 30, 2001

MEMORANDUM

Subject: Transmission of Background Materials for the Session of the September 5-6, 2001 FIFRA Scientific Advisory Panel entitled "*Preliminary Cumulative Hazard and Dose-Response Assessment for Organophosphorus Pesticides: Determination of Relative Potency and Points of Departure for Cholinesterase Inhibition*"

To: Olga Odiott, Designated Federal Official
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Through: Margaret Stasikowski, Director /s/
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On September 27, 2000, a hazard and dose-response pilot analysis on organophosphorus pesticides was presented to the FIFRA Scientific Advisory Panel (SAP) to illustrate how endpoints are selected and how the relative toxic potencies are determined for a cumulative risk assessment. Given that the Agency intends to complete a preliminary cumulative risk assessment for the organophosphorus pesticides by December 2001, the approach outlined last September has been revised by incorporating the recommendations of the SAP (see <http://www.epa.gov/scipoly/sap/2000/September/septcumfinal.pdf>).

The purpose of the current SAP review, which will be held September 5-6, 2001, is to seek comment from the Panel on whether the revised hazard and dose-response method on the organophosphorus pesticides has adequately addressed the SAP's recommendations. Please find attached, the following materials:

- ❑ The document entitled “*Preliminary Cumulative Hazard and Dose-Response Assessment for Organophosphorus Pesticides: Determination of Relative Potency and Points of Departure for Cholinesterase Inhibition*”
- ❑ Appendix 1: Technical aspects of dose-response analysis. The Panel members are also referred to <http://www.epa.gov/scipoly/sap/index.htm> to download a computer program called OPCumRisk used to perform dose-response analysis.
- ❑ Appendix 2: Toxicology profile tables and results of oral dose-response analysis for each pesticide.
- ❑ Appendix 3: Summary graphs and distributions
- ❑ Appendix 4: Example of two oral dose-response curves

The Panel members are requested to review the above materials for the September 5-6, 2001 session. Although the charge/questions for the SAP are not included in these materials, the Agency intends to ask several questions pertaining to the revised dose-response approach to modeling the cholinesterase data for organophosphorus pesticides and how well this revised approach addresses the SAP recommendations from the September 2000 meeting. The Agency anticipates sending the Panel, the specific questions the week of August 13, 2001.