

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

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

January 19, 2005

MEMORANDUM

Subject: Transmission of Background Materials and Charge to the Panel for the February 17, 2005 (Session 3) FIFRA Scientific Advisory Panel Entitled "The N-methyl Carbamate Cumulative Exposure Assessment: A Case Study of 10 N-Methyl Carbamates"

To: Myrta Christian, Designated Federal Official
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The February 15-18, 2005 FIFRA SAP meeting on the N-methyl Carbamate Cumulative Risk Assessment is the second in a series of SAP meetings planned by EPA to discuss various aspects of the N-methyl carbamate cumulative risk assessment. The first meeting held on December 4, 2004 involved the review of a white paper entitled "Designing Exposure Models that Support PBPK/PBPD Models of Cumulative Risk" developed by the LifeLife Group Inc (LLG). This February 2005 meeting will highlight four important topics:

- ☐ **Session 1:** Hazard assessment: laboratory method for measuring acetylcholinesterase (AChE) inhibition and empirical modeling of AChE inhibition and recovery data
- ☐ **Session 2:** Physiologically Based Pharmacokinetic/Pharmacodynamic (PBPK/PD) modeling for carbaryl

- ❑ **Session 3:** Groundwater exposure models
- ❑ **Session 4:** Exposure assessment: Pilot case study of the *N*-methyl carbamate exposure assessment.

This transmittal letter concerns Session 3 of this FIFRA SAP meeting entitled entitled “The N-methyl Carbamate Cumulative Risk Assessment: Drinking Water Exposure Assessment for Ground Water.” In support of this session scheduled for February 17, 2005, six documents in addition to this transmittal memorandum and questions are being provided to members of FIFRA Scientific Advisory Panel

1. Background of EPA Activities Related to the N-Methyl Carbamate Risk Assessment.
2. The N-methyl Carbamate Cumulative Risk Assessment: Drinking Water Exposure Assessment for Ground Water.
3. Evaluation of Vadose-Zone Solute-Transport Models for USGS Agricultural Chemical Transport Studies and EPA's Office of Pesticide Programs.
4. FOCUS Groundwater Scenarios in the EU Review of Active Substances.
5. Generic Guidance for FOCUS Groundwater Scenarios.
6. Estimating the Water Component of a Dietary Exposure Assessment.
7. Section 5 of Carbamate Cumulative Case Study Document from Session 4 of the SAP Meeting: Cumulative Risk from Carbamate Pesticides in Drinking Water.
8. Carbamate Cumulative Drinking Water Exposure Assessment: Questions for the SAP.

The background document is common to all sessions and is designed to provide the members of the FIFRA Scientific Advisory Panel and the public with a brief historical summary of cumulative risk assessment as mandated by the Food Quality Protection Act of 1996 (FQPA). It summarizes the identification of the N-methyl carbamate cumulative assessment group and provides a general framework and context for the development of the cumulative risk assessment for this group of pesticides.