

Office of Environmental Health Hazard Assessment



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Arnold Schwarzenegger
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MEMORANDUM

TO: Charles M. Andrews, Chief
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Gary T. Patterson, Ph.D., Chief
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FROM: Anna M. Fan, Ph.D., Chief
Pesticide and Environmental Toxicology Branch
Office of Environmental Health Hazard Assessment
1515 Clay Street, 16th Floor
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DATE: February XX, 2007

SUBJECT: FINAL RISK CHARACTERIZATION AND EXPOSURE ASSESSMENT
DOCUMENTS FOR CARBOFURAN (January 23, 2006)

Thank you for the opportunity to review the final Risk Characterization (RCD) and Exposure Assessment (EAD) Documents for Carbofuran prepared by the Department of Pesticide Regulation (DPR). The Office of Environmental Health Hazard Assessment (OEHHA) reviews risk assessments prepared by DPR under general authority of the Health and Safety Code, Section 59004, and also under the Food and Agriculture Code (FAC), Section 13129, in which OEHHA has the authority to provide advice, consultation, and recommendations to DPR concerning the risks to human health associated with exposure to pesticide active ingredients.

California Environmental Protection Agency

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption.

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As part of the inter-departmental review process, OEHHA provided comments to DPR on the draft RCD and EAD for Carbofuran (OEHHA memorandum dated July 7, 2005). Subsequently, OEHHA received responses to our comments from the Medical Toxicology Branch (DPR internal memorandum dated January 23, 2006) and the Worker Health and Safety Branch (DPR internal memorandum dated January 23, 2006).

OEHHA has reviewed the final version of the RCD and EAD for Carbofuran (DPR, Risk Characterization Document Carbofuran, January 23, 2006). We find the assumptions, considerations, and conclusions contained in these documents appropriate, scientifically defensible and sufficiently supported. However, OEHHA wants to point out that depending on the exposure pattern of the seasonal and chronic exposures, it may be appropriate to use the acute No-Observed-Adverse-Effect Level (NOAEL) for the evaluation of seasonal and chronic exposures as the acute NOAEL is lower than the sub-chronic and chronic NOAELs.

Again, thank you for the opportunity to review this document. Should you have any questions regarding this memo, please contact Dr. Jolanta Bankowska at (510) 622-3162 (primary reviewer), or Dr. David Ting at (510) 622-3226.

cc: Joan E. Denton, Ph.D.
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