



# Department of Pesticide Regulation



Brian R. Leahy  
Director

Edmund G. Brown Jr.  
Governor

June 1, 2018

Dr. Michael Kleinman  
Chairman, Scientific Review Panel  
Department of Medicine  
University of California, Irvine  
100 Theory, Suite 100  
Irvine, California 92697-1830

Dear Dr. Kleinman:

As part of the Department of Pesticide Regulation's (DPR's) evaluation of chlorpyrifos as a toxic air contaminant (TAC), the TAC Scientific Review Panel (SRP) is conducting a peer review of DPR's Draft Evaluation of Chlorpyrifos as a Toxic Air Contaminant. DPR's evaluation addresses potential human health effects arising from exposure to chlorpyrifos from food, drinking water, air, and skin contact, as well as aggregate exposures from various combined scenarios. In December 2017, DPR provided the SRP with the draft evaluation and the Office of Environmental Health Hazard Assessment's (OEHHA's) findings for its review. In accordance with Food and Agricultural Code section 14023, the SRP is charged with reviewing the scientific data, procedures and methods used to support the data, and conclusions to determine if DPR's science is seriously deficient. In January and March 2018, DPR also met with the SRP to present the scientific issues involved with evaluating the toxicity of chlorpyrifos as a TAC. On both occasions, the SRP recommended several revisions to DPR's evaluation including the consideration of using developmental neurotoxicity as the toxic endpoint and accounting for additional evaluations of other toxicity and epidemiological studies that are currently available.

This revised Evaluation of Chlorpyrifos as a Toxic Air Contaminant is an addendum to the December 2017 draft evaluation. This revision fully explores the currently available database on the developmental neurotoxicity endpoint and presents the reference concentrations based on that endpoint. It also updates the risk appraisal section and the conclusions. However, the specific scientific evaluations of the acetylcholinesterase toxicological endpoint are still contained in the December 2017 draft evaluation.



Dr. Michael Kleinman  
June 1, 2018  
Page 2

The revised evaluation and the December 2017 document are available at the following DPR Web page: <[http://www.cdpr.ca.gov/docs/whs/active\\_ingredient/chlorpyrifos.htm](http://www.cdpr.ca.gov/docs/whs/active_ingredient/chlorpyrifos.htm)>.

The SRP will discuss the revised evaluation at its meeting on June 12, 2018. Information about the meeting is available at: <<https://www.arb.ca.gov/srp/srpmeetings.htm>>.

Please contact me if you have any questions.

Sincerely,



Dr. Marylou Verder-Carlos  
Assistant Director  
916-445-3984

Enclosures

cc: Ms. Teresa Marks, DPR w/Enclosures  
Dr. Cort Anastasio, SRP member w/Enclosures  
Dr. Jesús Araujo, SRP member w/Enclosures  
Dr. Paul Blanc, SRP member w/Enclosures  
Dr. Alan Buckpitt, SRP member w/Enclosures  
Dr. Stanton Glantz, SRP member w/Enclosures  
Dr. Katharine Hammond, SRP member w/Enclosures  
Dr. Joseph Landolph, SRP member w/Enclosures  
Dr. Beate Ritz, SRP member w/Enclosures  
Dr. Jim Behrmann, ARB w/Enclosures  
Dr. David Siegel, OEHHA w/Enclosures  
Dr. Melanie Marty, OEHHA w/Enclosures  
Dr. John Faust, OEHHA w/Enclosures  
Dr. David Ting, OEHHA w/Enclosures