



Department of Pesticide Regulation



Brian R. Leahy
Director

MEMORANDUM

Edmund G. Brown Jr.
Governor

TO: Dr. Marylou Verder-Carlos **HSM-14008**
Assistant Director (No. assigned after issuance of memo)
Pesticide Programs Division

FROM: Lisa Ross, Ph.D. [Original signed by L. Ross]
Environmental Program Manager II
Chief, Worker Health and Safety Branch
(916) 324-4116

DATE: December 24, 2014

SUBJECT: COMPLETION OF METHYL PARATHION MITIGATION

The Methyl Parathion Mitigation memorandum (Sanders 2012) from the Worker Health and Safety Branch (WHS), dated April 24, 2012, describes our findings in regards to the need for mitigation of methyl parathion exposures. The Methyl Parathion Risk Characterization Document addendum identified occupational exposures, application site exposures for bystanders, aggregate exposures for the general public, and aggregate exposures for workers that exceeded levels of concern (Koshlukova 2010). In addition, methyl parathion was declared a Toxic Air Contaminant because application site exposures for bystanders exceeded levels of concern (Helliker 1999).

From 1992 to 2011, (the most recent year data were available), the last methyl parathion-related illness or injury case occurred in 2009 (DPR 2014a). In December 2012, the United States Environmental Protection Agency (U.S. EPA) cancelled all methyl parathion registrations. U.S. EPA also prohibited the sale and distribution of methyl parathion products and use of existing stocks after December 31, 2013 (U.S. EPA 2011a). In addition, the remaining residues tolerances for methyl parathion expired on December 31, 2013 (U.S. EPA 2011b). According to the Department of Pesticide Regulation's (DPR) Food Safety Residue Program database, from 2009 to 2013, there were no residue detections for methyl parathion (DPR 2014b).

Given U.S. EPA's cancellation of all registrations and revocation of all tolerances, lack of residue detections, and lack of recent reports of methyl parathion-related illness, WHS finds that there is no need for further mitigation action for methyl parathion. Your approval of this conclusion is requested.

cc: Linda O'Connell, Environmental Program Manager I
Kevin Solari, Senior Environmental Scientist (Supervisor)

APPROVAL

[Original signed by M. Verder-Carlos]
Marylou Verder-Carlos, Assistant Director

December 29, 2014
Date

References

Department of Pesticide Regulation. 2014a. Methyl Parathion Pesticide Illness Reports 1992-2011. Pesticide Illness Surveillance Program (PISP), California Pesticide Illness Query (CalPIQ). <http://apps.cdpr.ca.gov/calpiq/>. Accessed December 10, 2014.

Department of Pesticide Regulation. 2014b. Pesticide Residues in Fresh Produce 1990-2013. Pesticide Residue Monitoring Program, Annual Residue Data. <http://www.cdpr.ca.gov/docs/enforce/residue/rsmonmnu.htm>. Data supplied by Amna Hawatky December 11, 2014.

Helliker, P. 1999. Director's Proposed Decision Concerning Methyl Parathion as a Toxic Air Contaminant, Department of Pesticide Regulation, California Environmental Protection Agency. November 12, 1999. <http://www.cdpr.ca.gov/docs/emon/pubs/methylpa/dirdeter.pdf>.

Koshlukova, S. 2010. Risk Characterization Document for Methyl Parathion Occupational, Ambient Air, and Aggregate Exposures, Addendum to the 2004 Risk Characterization Document for Methyl Parathion Dietary and Ambient Air Exposures, Medical Toxicology Branch, Department of Pesticide Regulation, California Environmental Protection Agency. October 26, 2010. http://www.cdpr.ca.gov/docs/risk/rcd/meth_para_add.pdf.

Sanders, J. 2012. Methyl Parathion Mitigation, Worker Health and Safety Branch, Department of Pesticide Regulation, California Environmental Protection Agency. April 24, 2012. <http://www.cdpr.ca.gov/docs/whs/memo/jss04-24.pdf>.

U.S. Environmental Protection Agency. 2011a. Notice: Methyl Parathion; Rescission of Previously Issued Cancellation Orders and Issuance of Revised Cancellation Orders of Certain Pesticide Registrations. Federal Register Notice 76, no. 132. July 11, 2011. 40727-40728. <http://www.gpo.gov/fdsys/pkg/FR-2011-07-11/pdf/2011-17354.pdf>.

U.S. Environmental Protection Agency. 2011b. Final Rule: Atrazine, Chloroneb, Chlorpyrifos, Clofencet, Endosulfan, et al.; Tolerance Actions. Federal Register 76, no. 178. September 14, 2011. 56648-56657. <http://www.gpo.gov/fdsys/pkg/FR-2011-09-14/pdf/2011-23515.pdf>.