



Department of Pesticide Regulation



Brian R. Leahy
Director

MEMORANDUM

Edmund G. Brown Jr.
Governor

TO: All Staff
Human Health Assessment Branch

FROM: Eric S. C. Kwok, Ph.D., D.A.B.T.
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Human Health Assessment Branch
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DATE: March 30, 2016

SUBJECT: **EXPOSURE ASSESSMENT POLICY AND PROCEDURE – AN UPDATE TO
DEFAULT TRANSFER COEFFICIENTS**

The purpose of this memorandum is to update the default transfer coefficients for use in Department of Pesticide Regulation (DPR) exposure assessments.

Staffs in the Human Health Assessment Branch (HHAB) have been using default transfer coefficients (TCs) put forth in HSM-09005 (Frank, 2009) in their exposure assessment documents. All, except for one, of these transfer coefficients are based on the U.S. Environmental Protection Agency (U.S. EPA) Science Advisory Council for Exposure Policy 003.1 (USEPA, 2000) or the Agency's pesticide exposure study evaluation (Dawson, 2003). The only exception is a DPR-specific TC value for scouting cotton derived by Dong (1990).

Recently, the U.S. EPA has updated the Agency's policy (i.e., ExpoSAC Policy 3) on transfer coefficients (USEPA, 2013). Also, due to the change in cotton varieties commercially grown in California (i.e., shorter varieties that result in less contact to scouts), a higher TC value for scouting cotton is judged unnecessary. Hence, HHAB considers the U.S. EPA ExpoSAC Policy 3 on Transfer Coefficient appropriate for use in DPR exposure assessments. Deviations from this policy will be justified in DPR exposure assessment documents and approved by the Senior Toxicologist.

If you have any questions concerning the attached policy, please contact Dr. Eric S. C. Kwok at Eric.Kwok@cdpr.ca.gov.

Policy Approved by:

Sheryl Beauvais, Ph.D., Chief
Human Health Assessment Branch



References:

- Dawson, J. L. 2003. Human Health Risk Assessment: Carbaryl. Washington, DC: Health Effects Division, Office of Pesticide Programs, U.S. Environmental Protection Agency.
- Dong, M. H. 1990. Dermal Transfer Factor for Cotton Scouts. Memorandum to Ross, John H., Senior Toxicologist, Worker Health and Safety Branch, from Dong, Michael H., Staff Toxicologist, Worker Health and Safety Branch, dated June 8.
<http://www.cdpr.ca.gov/docs/whs/memo/hsm90001.pdf>.
- Frank, J. P. 2009. Exposure Assessment Policy and Procedure - Default Transfer Coefficients. Memorandum to All Staff, Worker Health and Safety Branch, from Frank, Joseph P., Senior Toxicologist, Worker Health and Safety Branch, dated February 17.
<http://www.cdpr.ca.gov/docs/whs/memo/hsm09005.pdf>.
- USEPA 2000. Agricultural Transfer Coefficients. Science Advisory Council for Exposure, Policy Number 003.1.
- USEPA 2013. Science Advisory Council for Exposure (ExpoSAC) Policy 3 pp. 124 (<http://www.epa.gov/pesticide-science-and-assessing-pesticide-risks/science-advisory-council-exposure-exposac-policy-123>).