



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

JAN 28 2011

**MEMORANDUM**

OFFICE OF  
SOLID WASTE AND  
EMERGENCY RESPONSE

**SUBJECT:** Bioavailability of Dioxins and Dioxin-Like Compounds in Soil Report

**FROM:** James E. Woolford, Director  
Office of Superfund Remediation and Technology Innovation *James E. Woolford*

**TO:** Superfund National Policy Managers, Regions 1 - 10

The purpose of this memorandum is to transmit the OSRTI Technical Report entitled "Bioavailability of Dioxins and Dioxin-Like Compounds in Soil". This report identifies and evaluates published literature relevant to estimating a relative bioavailability (RBA) value of dioxin and dioxin-like compounds in soil.

Based upon the analysis, and peer review the following conclusions have been determined:

1. Currently available research information suggests that an RBA of dioxin in soils can be expected to be less than 100%,
2. Available estimates of soil dioxin RBA are not adequate and sufficient to estimate a value for RBA for use in risk assessment as an alternative to 100% or site – specific values,
3. A preferred animal model or bioassay protocol has not been established for predicting soil RBA in humans.

This report and other efforts related to addressing dioxin soil can be found on the internet at <http://epa.gov/superfund/health/contaminants/dioxin/dioxinsoil.html>. Questions or concerns can be directed at Michele Burgess, Ph.D. at (703) 603-9003.

Attachments

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