

TITLE: Supplemental Values for Chemicals of Concern without Generic Numerical Standards

DATE EFFECTIVE: January 2006

HISTORY: Update to VA30009.09.007 - Revision was necessary to reflect changes in the rule citations that became effective in August 2014.

KEYWORDS: Generic numerical standards (GNS), supplemental values, property specific risk assessment (PSRA), multiple chemical adjustment (MCA)

RULE/ AUTHORITY: OAC 3745-300-08(A)(3) and 3745-300-09(A)(3)(c) and (D)

QUESTION: If chemicals of concerns have no Voluntary Action Program generic standards available, can Ohio EPA recommend another source for obtaining applicable standards for these chemicals?

BACKGROUND: OAC 3745-300-08 includes generic risk based standards that may be used to evaluate a property's compliance with applicable standards. Many chemicals are included within OAC 3745-300-08, but sometimes a property contains chemicals of concern (COCs) that do not have generic numerical standards (GNS). In these situations, applicable standards for these COCs must be derived through a property-specific risk assessment (PSRA) in accordance with OAC 3745-300-09. This is considered a mandatory application of a PSRA. See OAC 3745-300-08(A)(3) and 3745-300-09(A)(3)(c). Values such as U.S. EPA's Region IX Preliminary Remediation Goals (PRGs) are not appropriate for use as applicable standards for a VAP property.

ANSWER: Yes, the VAP has compiled a list of risk-derived supplemental values that may be used to help streamline a PSRA conducted in accordance with OAC 3745-300-09. This TDC document does not include a table of the supplemental values because they are subject to change as new information becomes available over time. However, the supplemental values and the associated database, which includes a list of the chemical, physical, and toxicity values used to derive the supplemental values, can be made available upon request. It is the responsibility of the user (e.g., the CP or Volunteer) to use this information appropriately and to verify its appropriateness.

VAP supplemental values have been derived through technical assistance by the VAP for several chemicals that do not have GNS.

Supplemental values are available for the direct-contact with soil pathway and the unrestricted potable use pathway. They were

derived following the same procedures used to develop the GNS included in OAC 3745-300-08, which is consistent with procedures included in OAC 3745-300-09(D). Many supplemental values were calculated using a surrogate toxicity value. In these instances, surrogate chemicals were used because the literature does not support a chemical-specific toxicity value.

As stated above, VAP rules require applicable standards for COCs without GNS to be derived through a PSRA. Therefore, supplemental values derived by the VAP through technical assistance are not GNS, but they may be used as property-specific applicable standards provided they are used appropriately. In other words, the values must be used in accordance with OAC 3745-300-09. The use of VAP supplemental values is optional and are provided solely to help streamline the required PSRA.

OHIO EPA
CONTACT:

For any questions concerning this issue or to obtain a table of the supplemental values and the associated database, please contact the VAP central office at (614) 644-2924.