4717.8450 EQUATION FOR CALCULATION OF MHRV FOR CARCINOGENS.

Subpart 1. **Scope.** This part establishes the methods for determining the multimedia health risk values (MHRVs) for carcinogens emitted to the air.

Subp. 2. **General equation for calculating MHRVs for carcinogens.** The general equation for calculating MHRVs for carcinogens is:

$$\text{MHRV} = \frac{\text{Additional lifetime risk}}{\text{Potency slope}} \times 1{,}000$$

Where:

A. MHRV is expressed in units of micrograms per kilogram of body weight per day (µg/kg-day);

B. potency slope is expressed in units of the inverse of milligrams per kilogram of body weight per day $(\text{mg/kg-day})^{-1}$;

C. additional lifetime risk is unitless; and

D. 1,000 is a factor to convert milligrams to micrograms.

Statutory Authority: *MS s 144.12*

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