4717.8350 EQUATION FOR CALCULATION OF MHRV FOR NONCARCINOGENIC EFFECTS OF TOXICANTS.

Subpart 1. **Scope.** This part establishes the method for determining the multimedia health risk value (MHRV) for a noncarcinogenic effect of a toxicant emitted to the air.

Subp. 2. **Equation for MHRV for noncarcinogenic effect of toxicant.** The equation for calculating a MHRV for a noncarcinogenic effect of a toxicant is:

$$\text{MHRV} = \frac{\text{NOAEL or LOAEL or BMD}}{(\text{Uncertainty factor}) (\text{Modifying factor})} \times 1{,}000$$

Where:

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

B. NOAEL, LOAEL, or BMD is expressed in units of milligrams of chemical or defined mixture of chemicals per kilogram body weight per day (mg/kg-day);

C. uncertainty factor and modifying factor are unitless;

D. the default value for modifying factor is one unless otherwise specified in part 4717.8250; and

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

Statutory Authority: *MS s 144.12*

History: *26 SR 1229; 26 SR 1395*

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