

**4717.8250 TABLE OF MHRVs FOR MULTIMEDIA EXPOSURE TO AIR TOXICS.**

The heading for each item contains the chemical name and, in parenthesis, the CAS RN. Each item lists the MHRV and the variables necessary for the equation. The equations used to develop the MHRV are designated as follows: "A" means applying the equation under part 4717.8350 for noncarcinogenic effects of toxicants and "B" means applying the equation under part 4717.8450 for carcinogens. The endpoint of concern is listed for use in determining a cancer index under part 4717.8550 or a hazard index under part 4717.8600.

## TABLE OF MHRVs

## A. Antimony (7440-36-0)

MHRV ( $\mu\text{g}/\text{kg}\text{-day}$ )	<b>0.4</b>
Endpoint of concern	Hematologic system
Equation	A
LOAEL ( $\text{mg}/\text{kg}\text{-day}$ )	3.5E-1
Uncertainty factor	1,000

## B. Arsenic (7440-38-2)

MHRV ( $\mu\text{g}/\text{kg}\text{-day}$ )	<b>0.007</b>
Endpoint of concern	Cancer
Equation	B
Potency slope [ $\text{mg}/\text{kg}\text{-day}$ ] <sup>-1</sup>	1.5

## C. Benzo[a]pyrene (50-32-8)

MHRV ( $\mu\text{g}/\text{kg}\text{-day}$ )	<b>0.001</b>
Endpoint of concern	Cancer
Equation	B
Potency slope [ $\text{mg}/\text{kg}\text{-day}$ ] <sup>-1</sup>	7.3

## D. Cadmium (7440-43-9)

MHRV ( $\mu\text{g}/\text{kg}\text{-day}$ )	<b>0.5</b>
Endpoint of concern	Renal system
Equation	A

NOAEL (mg/kg-day)	5E-3
Uncertainty factor	10

E. Manganese (7439-96-5)

MHRV ( $\mu\text{g}/\text{kg}\text{-day}$ )	<b>140</b>
Endpoint of concern	Nervous system
Equation	A
NOAEL (mg/kg-day)	1.4E-1
Uncertainty factor	1

F. Methylmercury (22967-92-6)

MHRV ( $\mu\text{g}/\text{kg}\text{-day}$ )	<b>0.1</b>
Endpoint of concern	Nervous system and developmental
Equation	A
BMD (mg/kg-day)	1E-3
Uncertainty factor	10

G. Nickel (7440-02-0)

MHRV ( $\mu\text{g}/\text{kg}\text{-day}$ )	<b>20</b>
Endpoint of concern	Decreased body and organ weights
Equation	A
NOAEL (mg/kg-day)	5
Uncertainty factor	300

H. Polychlorinated biphenyls (PCB) (1336-36-3)

MHRV ( $\mu\text{g}/\text{kg}\text{-day}$ )	<b>0.05</b>
Endpoint of return	Developmental
Equation	A
LOAEL (mg/kg-day)	5E-4
Uncertainty factor	10

**Statutory Authority:** *MS s 144.12*

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