4717.8200 TABLE OF ACUTE HRVs.

The heading for each item contains the chemical name and, in parenthesis, the CAS RN. Each item lists the acute HRV, the equation used to develop the acute HRV, and the variables necessary for the equation. The equations used to develop the acute HRV are designated as follows: "A" means calculating the NOAEL or LOAEL or BMC under part 4717.8500, subpart 3, and applying the general equation under part 4717.8500, subpart 2; "B" means calculating the NOAEL or LOAEL or BMC under part 4717.8500, subpart 4, and applying the general equation under part 4717.8500, subpart 2; "C" means calculating the BMC or BMC under part 4717.8500; and "D" means applying the equation under part 4717.8500, subpart 5. The endpoint of concern is listed for use in determining a hazard index under part 4717.8600.

TABLE OF ACUTE HRVs

A. Ammonia (7664-41-7)

2	
Acute HRV $(\mu g/m^3)$	3,200
Endpoint of concern	Irritant - eye, respiratory system
Equation	C
BMC (mg/m^3)	9.5
Uncertainty factor	3
D ((7704 40 4)	

B. Arsine (7784-42-1)

Acute HRV $(\mu g/m^3)$	200
Endpoint of concern	Hematologic*

Equation A $NOAEL_{ADJ} (mg/m^3)$ 1.6E1

Uncertainty factor 100

C. Benzene (71-43-2)

Acute HRV $(\mu g/m^3)$ 1,000

Endpoint of concern Reproductive/developmental

Equation D

NOAEL (mg/m³) 1.3E2 Uncertainty factor 100

D. Carbon disulfide (75-15-0)

Acute HRV (μg/m ³)	6,000
Endpoint of concern	Reproductive/developmental
Equation	D
NOAEL (mg/m ³)	6.2E2
Uncertainty factor	100
E. Chlorine (7882-50-5)	
Acute HRV (µg/m ³)	290
Endpoint of concern	Irritant - respiratory system
Equation	A
NOAEL (mg/m ³)	2.9
Uncertainty factor	10
F. Chloroform (67-66-3)	
Acute HRV (µg/m ³)	150
Endpoint of concern	Reproductive/developmental
Equation	D
LOAEL (mg/m ³)	1.5E2
Uncertainty factor	1,000
G. Dichloromethane (75-09-2)	
Acute HRV (μg/m ³)	10,000
Endpoint of concern	Nervous system
Equation	A
$NOAEL_{[ADJ]} (mg/m^3)$	6.8E2
Uncertainty factor	60
H. 1,4-Dioxane (123-91-1)	
Acute HRV (μg/m ³)	3,000
Endpoint of concern	Irritant - eye and nasal
Equation	A

$LOAEL_{ADJ} (mg/m^3)$	1.8E2
Uncertainty factor	60

I. Ethyl benzene (100-41-4)

Acute HRV (μg/m ³)	10,000
Endpoint of concern	Reproductive/developmental
Equation	D
NOAEL (mg/m ³)	4.3E2
Uncertainty factor	30

J. Ethyl chloride (75-00-3)

Acute HRV (µg/m³)	100,000
Endpoint of concern	Reproductive/developmental
Equation	D
NOAEL (mg/m ³)	4E3
Uncertainty factor	30

K. Ethylene glycol monoethyl ether (110-80-5)

Acute HRV (μg/m³)	400
Endpoint of concern	Reproductive/developmental
Equation	D
NOAEL (mg/m ³)	3.7E1
Uncertainty factor	100

L. Ethylene glycol monoethyl ether acetate (111-15-9)

Acute HRV $(\mu g/m^3)$	100
Endpoint of concern	Reproductive/developmental
Equation	D
LOAEL (mg/m ³)	1.4E2
Uncertainty factor	1,000

M. Ethylene glycol monomethyl ether (EGME) (109-86-4) or 2-methoxyethanol

Acute HRV (μg/m ³)	90	
Endpoint of concern	Reproductive/developmental	
Equation	D	
NOAEL (mg/m ³)	9.3	
Uncertainty factor	100	
N. Formaldehyde (50-00-0)		
Acute HRV (μg/m ³)	94	
Endpoint of concern	Irritant - eye and respiratory system	
Equation	C	
BMC (mg/m^3)	9.4E-1	
Uncertainty factor	10	
O. Hydrogen chloride (7647-01-1)		
Acute HRV (μg/m ³)	2,700	
Endpoint of concern	Irritant - eye and respiratory system	
Equation	A	
NOAEL (mg/m ³)	2.7	
Uncertainty factor	1	
P. Hydrogen cyanide (74-90-8)		
Acute HRV (μg/m ³)	700	
Endpoint of concern	Nervous system*	
Equation	A	
NOAEL (mg/m ³)	6.8E1	
Uncertainty factor	100	
Q. Hydrogen fluoride (7664-39-3)		
Acute HRV (μg/m ³)	240	
Endpoint of concern	Irritant - respiratory system	
Equation	A	

$NOAEL_{ADJ} (mg/m^3)$	2.4
Uncertainty factor	10

R. Methanol (67-56-1)

Acute HRV	$(\mu g/m^3)$	25,000
1 loute 111tv	$(\mu S^{\prime 111})$	23,000

Endpoint of concern Nervous system

Equation A

NOAEL_[ADJ] (mg/m³) 2.5E2 Uncertainty factor 10

S. Methyl bromide (74-83-9)

Acute HRV $(\mu g/m^3)$ 2,000

Endpoint of concern Nervous system*

Equation A

LOAEL_[ADJ] (mg/m³) 1.4E2 Uncertainty factor 60

T. Methyl ethyl ketone (78-93-3)

Acute HRV ($\mu g/m^3$) 10,000

Endpoint of concern Irritant - eye and respiratory system

Equation A

LOAEL_[ADJ] (mg/m³) 8E2

Uncertainty factor 60

U. Nickel and nickel compounds (**)

Acute HRV $(\mu g/m^3)$

Endpoint of concern Irritant - respiratory system

Equation A

LOAEL (mg/m^3) 6.7E-2

Uncertainty factor 6

V. Nitric acid (7697-37-2)

Acute HRV (μg/m ³)	130
Endpoint of concern	Irritant - respiratory system
Equation	A
NOAEL (mg/m ³)	1.29E-1
Uncertainty factor	1
W. Phenol (108-95-2)	
Acute HRV (µg/m³)	5,800
Endpoint of concern	Irritant - eye and respiratory system
Equation	В
$NOAEL_{ADJ} (mg/m^3)$	5.8E1
Uncertainty factor	10
X. Phosgene (75-44-5)	
Acute HRV (µg/m³)	4
Endpoint of concern	Irritant - respiratory system*
Equation	A
$NOAEL_{ADJ} (mg/m^3)$	4E-1
Uncertainty factor	100
Y. Sodium hydroxide (1310-93-2)	
Acute HRV (µg/m³)	8
Endpoint of concern	Irritant - eye, skin, and respiratory system
Equation	A
$LOAEL_{ADJ} (mg/m^3)$	5E-1
Uncertainty factor	60
Z. Styrene (100-42-5)	
Acute HRV (µg/m³)	21,000
Endpoint of concern	Irritant - eye and respiratory system
Equation	A

NOAEL_[ADJ] (mg/m³) 2.1E2 Uncertainty factor 10

AA. Tetrachloroethylene or perchlorethylene (127-18-4)

Acute HRV $(\mu g/m^3)$ **20,000**

Endpoint of concern Irritant - eye and respiratory and nervous

systems

Equation B

LOAEL_[ADJ] (mg/m³) 1.2E3 Uncertainty factor 60

BB. Toluene (108-88-3)

Acute HRV ($\mu g/m^3$) 37,000

Endpoint of concern Irritant - eye and respiratory and nervous

systems

Equation B

 $NOAEL_{[ADJ]} (mg/m^3) 3.7E2$

Uncertainty factor 10

CC. 1,1,1-Trichloroethane or methyl chloroform (71-55-6)

Acute HRV ($\mu g/m^3$) 140,000

Endpoint of concern Nervous system

Equation A

NOAEL (mg/m^3) 1.37E3

Uncertainty factor 10

DD. Trichloroethylene (79-01-6)

Acute HRV $(\mu g/m^3)$ 2,000

Endpoint of concern Reproductive/developmental

Equation D

LOAEL (mg/m³) 5.4E2
Uncertainty factor 300

EE. Triethylamine (121-44-8)

10

Acute HRV ($\mu g/m^3$)

Endpoint of concern

Equation

NOAEL_[ADJ] (mg/m^3)

2,800

Irritant - eye; transient corneal edema

B

2.8E1

FF. Vanadium pentoxide (1314-62-1)

Acute HRV $(\mu g/m^3)$	30
Endpoint of concern	Irritant - respiratory system
Equation	В
$LOAEL_{ADJ} (mg/m^3)$	3E-1
Uncertainty factor	10

GG. Xylenes (1330-20-7)

Uncertainty factor

Acute HRV ($\mu g/m^3$) 43,000

Endpoint of concern Irritant - eye and respiratory and nervous

systems

Equation A

NOAEL (mg/m^3) 4.3E2

Uncertainty factor 10

Statutory Authority: MS s 144.12

History: 26 SR 1229; 26 SR 1395

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^{*} This HRV is for a chemical where there is little magnitude difference between the level where mild irritancy occurs and levels where more severe adverse health effects occur.

^{**} This HRV is for a chemical mixture which, therefore, does not have a chemical-specific number assigned by the Chemical Abstracts Service.