APPENDIX I

MATES V

DRAFT REPORT

Cancer Potency Factors and Chronic RELs

Appendix I

Cancer Potency Factors and Chronic RELs

Table I-1. OEHHA Cancer Potency Factors and Chronic RELs for pollutants measured in MATES V[1]

Species	CAS	Inhalation Cancer Potency Factor $(mg/kg\text{-}d)^{-1}$	Cancer Oral Slope Factor $(mg/kg\text{-}d)^{-1}$	Chronic Inhalation REL (ug/m3)	Chronic Oral $(mg/kg\text{-}d)^{-1}$
Acetaldehyde	75-07-0	0.01		140	
Acrolein (2-Propenal)	107-02-8			0.35	
Arsenic	7440-38-2	12	1.5	0.015	0.0000035
Benzene	71-43-2	0.1		3	
Benzo(a)anthracene	56-55-3	0.39	1.2		
Benzo(a)pyrene	50-32-8	3.9	12.0		
Benzo(b)fluoranthene	205-99-2	0.39	1.2		
Benzo(k)fluoranthene	207-08-9	0.39	1.2		
Beryllium	7440-41-7	8.4		0.007	
Bromomethane	74-83-9			5	
1,3-Butadiene	106-99-0	0.6		2	
Cadmium	7440-43-9	15		0.02	0.0005
Carbon Tetrachloride	56-23-5	0.15		40	
Chlorine	7782-50-5			0.2	
Chloroform	67-66-3	0.019		300	
Chrysene	218-01-9	0.039	0.12		
Cobalt	7440-48-4	27			
Dibenz(a,h)anthracene	53-70-3	4.1	4.1		
1,2-Dibromoethane	106-93-4	0.25		0.8	
1,4-Dichlorobenzene	106-46-7	0.04		800	
1,2-Dichloroethane	107-06-2	0.072		400	
Diesel Exhaust	9901	1.1		5	
Ethyl Benzene	100-41-4	0.0087		2000	

[1] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf

Species	CAS	Inhalation Cancer Potency Factor $(mg/kg\text{-}d)^{-1}$	Cancer Oral Slope Factor $(mg/kg\text{-}d)^{-1}$	Chronic Inhalation REL (ug/m3)	Chronic Oral $(mg/kg\text{-}d)^{-1}$
Formaldehyde	50-00-0	0.021		9	
Hexavalent Chromium	18540-29-9	510	0.5	0.2	0.02
Indeno(1,2,3-c,d)pyrene	193-39-5	0.39	1.2		
Lead	7439-92-1	0.042	0.085		
Manganese	7439-96-5			0.09	
Methyl tertiary-butyl ether (MTBE)	1634-04-4	0.0018		8000	
Methylene Chloride	75-09-2	0.0035		400	
Naphthalene	91-20-3	0.12		9	
Nickel	7440-02-0	0.91		0.014	
Perchloroethylene	127-18-4	0.021		35	
Selenium	7782-49-2			20	0.005
Styrene	100-42-5			900	
Toluene	108-88-3			420	
Trichloroethylene	79-01-6	0.007		600	
Vinyl Chloride	75-01-4	0.27			
Xylene (m-, p-)	1330-20-7			700	
Xylene (o-)	95-47-6			700	

Table I-2. Pollutants measured in MATES V that do not have OEHHA Risk Assessment Health Values for Cancer Potency or Chronic Risk*

Species	CAS
Acenaphthene	83-32-9
Acenaphthylene	208-96-8
Acetone	67-64-1
Aluminum	7429-90-5
Ammonium Ion	14798-03-9
Anthracene	120-12-7
Antimony	7440-36-0
Barium	7440-39-3
Benzaldehyde	100-52-7
Benzo(e)pyrene	192-97-2
Benzo(g,h,i)perylene	191-24-2
Calcium	7440-70-2
Cesium	7440-46-2
Chloride	16887-00-6
Chromium	7440-47-3
Cobalt	7440-48-4
Copper	7440-50-8
Coronene	191-07-1
Cyclopenta(c,d)pyrene	27208-37-3
1,2-Dichlorobenzene	95-50-1
1,2-Dichloropropane	78-87-5
EC1	
EC2	
EC3	
Elemental Carbon	
Fluoranthene	206-44-0
Fluorene	86-73-7
9-Fluorenone	486-25-9
Galactosan	644-76-8
Iron	7439-89-6
Levoglucosan	498-07-7

Species	CAS
Magnesium	7439-95-4
Mannosan	14168-65-1
Methyl Ethyl Ketone	78-93-3
Molybdenum	7439-98-7
Nitrate	14797-55-8
OC1	
OC2	
OC3	
OC4	
Organic Carbon	
PM2.5 Mass	
Perylene	198-55-0
Phenanthrene	85-01-8
Phosphorus	7723-14-0
Potassium	7440-09-7
Potassium Ion	24203-36-9
Propionaldehyde	123-38-6
Pyrene	129-00-0
Retene	483-65-8
Rubidium	7440-17-7
Samarium	7440-19-9
Silicon	7440-21-3
Sodium	7440-23-5
Strontium	7440-24-6
Sulfate	14808-79-8
Sulfur	7704-34-9
Thallium	7440-28-0
Tin	7440-31-5
Titanium	7440-32-6
Total Carbon	
Uranium	7440-61-1
Vanadium	7440-62-2
Yttrium	7440-65-5

*Some of these species have acute health risk assessment values from OEHHA