

## DATA ENTRY SHEET

SL-ADV  
Version 3.1; 02/04

CALCULATE RISK-BASED SOIL CONCENTRATION (enter "X" in "YES" box)

YES

 X  
**OR**
Reset to  
Defaults

CALCULATE INCREMENTAL RISKS FROM ACTUAL SOIL CONCENTRATION (enter "X" in "YES" box and initial soil conc. below)

YES

**ENTER** Initial  
Chemical  
soil  
conc.,  
**C<sub>0</sub>**  
(numbers only,  
no dashes)  
**(µg/kg)**

75092

Chemical

Methylene chloride

**ENTER** Depth  
below grade  
to bottom  
of enclosed  
space floor,  
**L<sub>F</sub>**  
(cm)

**ENTER** Depth below  
grade to top  
of contamination,  
**L<sub>t</sub>**  
(cm)

**ENTER** Depth below  
grade to bottom  
of contamination,  
(enter value of 0  
if value is unknown)  
**L<sub>b</sub>**  
(cm)

**ENTER** Thickness  
of soil  
stratum A,  
**h<sub>A</sub>**  
(cm)

**ENTER** Thickness  
of soil  
stratum B,  
**h<sub>B</sub>**  
(cm)

**ENTER** Thickness  
of soil  
stratum C,  
**h<sub>C</sub>**  
(cm)

**ENTER** Soil  
stratum A  
SCS  
soil type  
(used to estimate  
soil vapor  
permeability)  
**OR**

User-defined  
stratum A  
soil vapor  
permeability,  
**k<sub>v</sub>**  
(cm<sup>2</sup>)

10

15

701

732

701

0

0

1.00E-08

MORE  
▼

**ENTER** Stratum A  
SCS  
soil type  
**Lookup Soil  
Parameters**

**p<sub>b</sub><sup>A</sup>**  
(g/cm<sup>3</sup>)**ENTER** Stratum A  
soil dry  
bulk density,  
**p<sub>b</sub><sup>A</sup>**  
(g/cm<sup>3</sup>)**n<sup>A</sup>**  
(unitless)**ENTER** Stratum A  
soil total  
porosity,  
**n<sup>A</sup>****θ<sub>w</sub><sup>A</sup>**  
(cm<sup>3</sup>/cm<sup>3</sup>)**ENTER** Stratum A  
soil water-filled  
porosity,  
**f<sub>oc</sub><sup>A</sup>**  
(unitless)**Lookup Soil  
Parameters**

**ENTER** Stratum A  
soil organic  
carbon fraction,  
**f<sub>oc</sub><sup>A</sup>**  
(unitless)

**ENTER** Stratum B  
SCS  
soil type  
**Lookup Soil  
Parameters**

**ENTER** Stratum B  
soil dry  
bulk density,  
**p<sub>b</sub><sup>B</sup>**  
(g/cm<sup>3</sup>)

**n<sup>B</sup>**  
(unitless)

**ENTER** Stratum B  
soil water-filled  
porosity,  
**n<sup>B</sup>**  
(cm<sup>3</sup>/cm<sup>3</sup>)

**ENTER** Stratum B  
soil organic  
carbon fraction,  
**f<sub>oc</sub><sup>B</sup>**  
(unitless)**ENTER** Stratum C  
SCS  
soil type  
**Lookup Soil  
Parameters**

**ENTER** Stratum C  
soil dry  
bulk density,  
**p<sub>b</sub><sup>C</sup>**  
(g/cm<sup>3</sup>)

**n<sup>C</sup>**  
(unitless)

**ENTER** Stratum C  
soil water-filled  
porosity,  
**θ<sub>w</sub><sup>C</sup>**  
(cm<sup>3</sup>/cm<sup>3</sup>)

**ENTER** Stratum C  
soil organic  
carbon fraction,  
**f<sub>oc</sub><sup>C</sup>**  
(unitless)

1.65

0.439

0.045

0.002

MORE  
▼

**ENTER** Enclosed  
space  
floor  
thickness,  
**L<sub>crack</sub>**  
(cm)

**ΔP**  
(g/cm<sup>-2</sup>)**ENTER** Enclosed  
space  
floor  
length,  
**L<sub>b</sub>**  
(cm)**ENTER** Enclosed  
space  
floor  
width,  
**W<sub>b</sub>**  
(cm)**ENTER** Enclosed  
space  
height,  
**H<sub>b</sub>**  
(cm)**ENTER** Floor-wall  
seam crack  
width,  
**w**  
(cm)**ENTER** Indoor  
air exchange  
rate,  
**ER**  
(1/h)

**ENTER** Average vapor  
flow rate into bldg.  
**Q<sub>sol</sub>**  
(L/m)

Leave blank to calculate

10

40

1000

1000

244

0.1

0.25

**ENTER** Averaging  
time for  
carcinogens,  
**AT<sub>C</sub>**  
(yrs)

**AT<sub>NC</sub>**  
(yrs)**ENTER** Exposure  
duration,  
**ED**  
(yrs)**ENTER** Exposure  
frequency,  
**EF**  
(days/yr)**ENTER** Target  
risk for  
carcinogens,  
**TR**  
(unitless)**ENTER** Target hazard  
quotient for  
noncarcinogens,  
**THQ**  
(unitless)

70

30

30

350

1.0E-05

1

Used to calculate risk-based  
soil concentration.

END

## CHEMICAL PROPERTIES SHEET

Diffusivity in air, D <sub>a</sub> (cm <sup>2</sup> /s)	Diffusivity in water, D <sub>w</sub> (cm <sup>2</sup> /s)	Henry's law constant at reference temperature, H (atm-m <sup>3</sup> /mol)	Henry's law constant reference temperature, T <sub>R</sub> (°C)	Enthalpy of vaporization at the normal boiling point, ΔH <sub>v,b</sub> (cal/mol)	Normal boiling point, T <sub>B</sub> (°K)	Critical temperature, T <sub>c</sub> (°K)	Organic carbon partition coefficient, K <sub>oc</sub> (cm <sup>3</sup> /g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF (μg/m <sup>3</sup> ) <sup>-1</sup>	Reference conc., RfC (mg/m <sup>3</sup> )	Physical state at soil temperature, (S,L,G)
1.01E-01	1.17E-05	2.18E-03	25	6,706	313.00	510.00	1.17E+01	1.30E+04	1.0E-08	6.0E-01	L
<b>END</b>											

INTERMEDIATE CALCULATIONS SHEET

Exposure duration, $\tau$ (sec)	Source-building separation, $L_T$ (cm)	Stratum A soil air-filled porosity, $\theta_a^A$ ( $\text{cm}^3/\text{cm}^3$ )	Stratum B soil air-filled porosity, $\theta_a^B$ ( $\text{cm}^3/\text{cm}^3$ )	Stratum C soil air-filled porosity, $\theta_a^C$ ( $\text{cm}^3/\text{cm}^3$ )	Stratum A effective total fluid saturation, $S_{te}$ ( $\text{cm}^3/\text{cm}^3$ )	Stratum A soil intrinsic permeability, $k_i$ ( $\text{cm}^2$ )	Stratum A relative air permeability, $k_{rg}$ ( $\text{cm}^2$ )	Stratum A soil effective vapor permeability, $k_v$ ( $\text{cm}^2$ )	Floor-wall seam perimeter, $X_{crack}$ (cm)	Initial soil concentration used, $C_R$ ( $\mu\text{g}/\text{kg}$ )	Bldg. ventilation rate, $Q_{building}$ ( $\text{cm}^3/\text{s}$ )
9.46E+08	686	0.394	ERROR	ERROR	#N/A	#N/A	#N/A	1.00E-08	4,000	1.00E+00	1.69E+04

Area of enclosed space below grade, $A_B$ ( $\text{cm}^2$ )	Crack-to-total area ratio, $\eta$	Crack depth below grade, $Z_{crack}$ (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, $H_{TS}$ ( $\text{atm}\cdot\text{m}^3/\text{mol}$ )	Henry's law constant at ave. soil temperature, $H'_{TS}$ (unitless)	Vapor viscosity at ave. soil temperature, $\mu_{TS}$ ( $\text{g}/\text{cm}\cdot\text{s}$ )	Stratum A effective diffusion coefficient, $D^{eff}_A$ ( $\text{cm}^2/\text{s}$ )	Stratum B effective diffusion coefficient, $D^{eff}_B$ ( $\text{cm}^2/\text{s}$ )	Stratum C effective diffusion coefficient, $D^{eff}_C$ ( $\text{cm}^2/\text{s}$ )	Total overall effective diffusion coefficient, $D^{eff}_T$ ( $\text{cm}^2/\text{s}$ )	Diffusion path length, $L_d$ (cm)	Convection path length, $L_p$ (cm)
1.06E+06	3.77E-04	15	7,034	1.16E-03	5.01E-02	1.75E-04	2.36E-02	0.00E+00	0.00E+00	2.36E-02	686	15

Soil-water partition coefficient, $K_d$ ( $\text{cm}^3/\text{g}$ )	Source vapor conc., $C_{source}$ ( $\mu\text{g}/\text{m}^3$ )	Crack radius, $r_{crack}$ (cm)	Average vapor flow rate into bldg., $Q_{soil}$ ( $\text{cm}^3/\text{s}$ )	Crack effective diffusion coefficient, $D^{crack}$ ( $\text{cm}^2/\text{s}$ )	Area of crack, $A_{crack}$ ( $\text{cm}^2$ )	Exponent of equivalent foundation Peclet number, $\exp(Pe^l)$ (unitless)	Infinite source indoor attenuation coefficient, $\alpha$ (unitless)	Infinite source bldg. conc., $C_{building}$ ( $\mu\text{g}/\text{m}^3$ )	Finite source $\beta$ term (unitless)	Finite source $\psi$ term (unitless)	Time for source depletion, $\tau_D$ (sec)	Exposure duration > time for source depletion, $(YES/NO)$
2.34E-02	8.00E+02	0.10	1.00E+01	2.36E-02	4.00E+02	4.25E+04	NA	NA	4.62E+00	2.43E-08	8.65E+06	YES

Finite source indoor attenuation coefficient, $<\alpha>$	Mass bldg. conc., $C_{building}$ ( $\mu\text{g}/\text{m}^3$ )	Finite source conc., $C_{building}$ ( $\mu\text{g}/\text{m}^3$ )	Final finite source bldg. conc., $C_{building}$ ( $\mu\text{g}/\text{m}^3$ )	Unit risk factor, $URF$	Reference conc., $RfC$ ( $\text{mg}/\text{m}^3$ )
NA	3.38E-03	NA	3.38E-03	1.0E-08	6.0E-01

**END**

## RESULTS SHEET

## RISK-BASED SOIL CONCENTRATION CALCULATIONS:

Indoor exposure soil conc., carcinogen (µg/kg)	Indoor exposure soil conc., noncarcinogen (µg/kg)	Risk-based indoor exposure soil conc., (µg/kg)	Soil saturation C <sub>sat</sub> (µg/kg)	Final indoor exposure soil conc., (µg/kg)
7.19E+05	1.85E+05	1.85E+05	8.16E+05	1.85E+05

## INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	NA

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

MESSAGE: The values of Csource and Cbuilding on the INTERCALCS worksheet are based on unity and do not represent actual values.

SCROLL  
DOWN  
TO "END"

END

## VLOOKUP TABLES

SCS Soil Type	Soil Properties Lookup Table					Bulk Density				
	K <sub>s</sub> (cm/h)	a <sub>t</sub> (1/cm)	N (unitless)	M (unitless)	n (cm <sup>3</sup> /cm <sup>3</sup> )	θ <sub>t</sub> (cm <sup>3</sup> /cm <sup>3</sup> )	Mean Grain Diameter (cm)	(g/cm <sup>3</sup> )	θ <sub>w</sub> (cm <sup>3</sup> /cm <sup>3</sup> )	SCS Soil Name
C	0.61	0.01496	1.253	0.2019	0.459	0.098	0.0092	1.43	0.215	Clay
CL	0.34	0.01581	1.416	0.2938	0.442	0.079	0.016	1.48	0.168	Clay Loam
L	0.50	0.01112	1.472	0.3207	0.399	0.061	0.020	1.59	0.148	Loam
LS	4.38	0.03475	1.746	0.4273	0.390	0.049	0.040	1.62	0.076	Loamy Sand
S	26.78	0.03524	3.177	0.6852	0.375	0.053	0.044	1.66	0.054	Sand
SC	0.47	0.03342	1.208	0.1722	0.385	0.117	0.025	1.63	0.197	Sandy Clay
SCL	0.55	0.02109	1.330	0.2481	0.384	0.063	0.029	1.63	0.146	Sandy Clay Loam
SI	1.82	0.00658	1.679	0.4044	0.489	0.050	0.0046	1.35	0.167	Silt
SIC	0.40	0.01622	1.321	0.2430	0.481	0.111	0.0039	1.38	0.216	Silty Clay
SICL	0.46	0.00839	1.521	0.3425	0.482	0.090	0.0056	1.37	0.198	Silty Clay Loam
SIL	0.76	0.00506	1.663	0.3987	0.439	0.065	0.011	1.49	0.180	Silt Loam
SL	1.60	0.02667	1.449	0.3099	0.387	0.039	0.030	1.62	0.103	Sandy Loam

CAS No.	Chemical	Chemical Properties Lookup Table														
		Organic carbon partition coefficient, K <sub>oc</sub> (cm <sup>3</sup> /g)	Diffusivity in air, D <sub>a</sub> (cm <sup>2</sup> /s)	Diffusivity in water, D <sub>w</sub> (cm <sup>2</sup> /s)	Pure component water solubility, S (mg/L)	Henry's law constant, H (unitless)	Henry's law constant at reference temperature, H' (atm·m <sup>3</sup> /mol)	Henry's law constant reference temperature, T <sub>R</sub> (°C)	Normal boiling point, T <sub>b</sub> (°K)	Critical temperature, T <sub>c</sub> (°K)	Enthalpy of vaporization at the normal boiling point, ΔH <sub>v,b</sub> (cal/mol)	Unit risk factor, URF, conc., RIC (ug/m <sup>3</sup> ) <sup>-1</sup>	Reference temperature, (mg/m <sup>3</sup> )	Physical state at soil temperature, (S,L,G)	URF extrapolated (X)	RIC extrapolated (X)
56235	Carbon tetrachloride	1.74E+02	7.80E-02	8.80E-06	7.93E+02	1.24E+00	3.03E-02	25	349.90	556.60	7,127	6.0E-06	1.0E-01	L		
57749	Chlordane	1.20E+05	1.18E-02	4.37E-06	5.60E-02	1.99E-03	4.85E-05	25	624.24	885.73	14,000	1.0E-04	7.0E-01	S		
58899	gamma-HCH (Lindane)	1.07E-03	1.42E-02	7.34E-06	7.30E+00	5.73E-04	1.40E-05	25	596.55	839.36	15,000	3.7E-04	1.1E-03	S	X	X
60297	Ethyl ether	5.73E+00	7.82E-02	8.61E-06	5.68E+04	1.35E+00	3.29E-02	25	307.50	466.74	6,338	0.0E+00	7.0E-01	L		
60571	Diekridin	2.14E+04	1.25E-02	4.74E-06	1.95E-01	6.18E-04	1.51E-05	25	613.32	842.25	17,000	4.6E-03	1.8E-04	S		
67641	Acetone	5.75E-01	1.24E-01	1.14E-05	1.00E+06	1.59E-03	3.87E-05	25	329.20	508.10	6,955	0.0E+00	3.1E+01	L		
67671	Chloroform	3.98E+01	1.04E-01	1.00E-05	7.92E-03	1.50E-01	3.66E-03	25	334.32	536.40	6,988	2.3E-05	9.8E-02	L		
67721	Hexachloroethane	1.78E+03	2.50E-03	6.80E-06	5.00E+01	1.59E-01	3.88E-03	25	458.00	695.00	9,510	1.1E-05	3.0E-02	S		
71432	Benzene	5.89E+01	8.80E-02	9.80E-06	1.79E+03	2.27E-01	5.54E-03	25	353.24	562.16	7,342	7.8E-06	3.0E-02	L		
71555	1,1,1-Trichloroethane	1.10E+02	7.80E-02	8.80E-06	1.33E+03	7.03E-01	1.72E-02	25	347.24	545.00	7,136	0.0E+00	5.0E+00	L		
72435	Methoxychlor	9.77E-04	1.56E-02	4.46E-06	1.00E-01	6.46E-04	1.58E-05	25	651.02	848.49	16,000	0.0E+00	1.8E-02	S		
72559	DDE	4.47E+06	1.44E-02	5.87E-06	1.20E-01	8.59E-04	2.09E-05	25	636.44	860.38	15,000	9.7E-05	0.0E+00	S	X	
74839	Methyl bromide	1.05E-01	7.28E-02	1.21E-05	1.52E+04	2.55E-01	6.22E-03	25	276.71	467.00	5,714	0.0E+00	5.0E-03	G		
74873	Methyl chloride (chloromethane)	2.12E+00	1.26E-01	6.50E-06	5.33E-03	3.61E-01	8.80E-03	25	249.00	416.25	5,115	1.8E-06	9.0E-02	L		
74908	Hydrogen cyanide	3.80E+00	1.93E-01	2.10E-05	1.00E+06	5.44E-03	1.33E-04	25	299.00	456.70	6,676	0.0E+00	3.0E-03	L		
74953	Methylene bromide	1.26E+01	4.30E-02	8.44E-06	1.19E+04	3.52E-02	8.59E-04	25	370.00	583.00	7,868	0.0E+00	4.0E-04	L		
75003	Chloroethane (ethyl chloride)	4.40E+00	2.71E-01	1.15E-05	5.68E+03	3.61E-01	8.80E-03	25	285.30	460.40	5,879	0.0E+00	1.0E+01	L	X	
75014	Vinyl chloride (chloroethene)	1.86E+01	1.06E-01	1.23E-05	8.80E-03	1.10E+00	2.69E-02	25	259.25	432.00	5,250	4.4E-06	1.0E-01	G		
75058	Acetonitrile	4.20E+00	1.28E-01	1.66E-06	1.42E-03	3.45E-05	25	354.60	545.50	7,110	0.0E+00	6.0E-02	L			
75070	Acetaldehyde	1.06E+00	1.24E-01	1.41E-05	1.00E+06	3.23E-03	7.87E-05	25	293.10	466.00	6,157	2.2E-06	9.0E-03	L		
75092	Methylene chloride	1.17E-01	1.01E-01	1.17E-05	1.30E+04	8.96E-02	2.18E-03	25	313.00	510.00	6,706	1.0E-06	6.0E-01	L		
75150	Carbon disulfide	4.57E+01	1.04E-01	1.00E-05	1.19E-03	1.24E+00	3.02E-02	25	319.00	552.00	6,391	0.0E+00	7.0E-01	L		
75218	Ethylen oxide	1.33E+00	1.04E-01	1.45E-05	3.04E-05	2.27E-02	5.54E-04	25	283.60	469.00	6,104	1.0E-04	0.0E+00	L		
75252	Bromoform	8.71E+01	1.49E-02	1.03E-05	3.10E-03	2.41E-02	5.88E-04	25	422.35	696.00	9,479	1.1E-06	0.0E+00	L		
75274	Bromodichloromethane	5.50E+01	2.98E-02	1.06E-05	6.74E-03	6.54E-02	1.60E-03	25	363.15	585.85	7,800	3.7E-05	0.0E+00	L	X	X
75296	2-Chloropropane	9.14E+00	8.88E-02	1.01E-05	3.73E-03	5.93E-01	1.45E-02	25	308.70	485.00	6,286	0.0E+00	1.0E-01	L		
75343	1,1-Dichloroethane	3.16E+01	7.42E-02	1.05E-02	5.06E+03	2.30E-01	5.61E-03	25	330.55	523.00	6,895	1.6E-06	0.0E+00	L		
75354	1,1-Dichloroethylene	5.89E+00	9.00E-02	1.04E-05	2.25E-03	1.07E+00	2.60E-02	25	304.75	576.05	6,247	0.0E+00	2.0E-01	L		
75456	Chlorodifluoromethane	4.79E+01	1.01E-01	1.28E-05	2.00E+00	1.10E+00	2.70E-02	25	232.40	369.30	4,836	0.0E+00	5.0E+01	L		
75694	Trichlorofluoromethane	4.97E+02	8.70E-02	9.70E-06	1.10E+03	3.97E+00	9.68E-02	25	296.70	471.00	5,999	0.0E+00	7.0E-01	L		
75718	Dichlorodifluoromethane	4.57E+02	6.65E-02	9.92E-06	2.80E+02	1.40E+01	3.42E-01	25	243.20	384.95	9,421	0.0E+00	1.0E-01	L		
76131	1,1,2-Trichloro-1,2,2-trifluoroether	1.11E+04	7.80E-02	8.20E-06	1.70E+02	1.97E+01	4.80E-01	25	320.70	487.30	6,463	0.0E+00	3.0E-01	L		
76448	Heptachlor	1.41E+06	1.12E-02	5.69E-06	1.80E-01	6.05E+01	1.48E+00	25	603.69	846.31	13,000	1.3E-03	1.8E-03	S	X	
77474	Hexachlorocyclopentadiene	2.00E+05	1.61E-02	7.21E-06	1.80E+00	1.10E+02	2.69E-02	25	512.75	746.00	10,931	0.0E+00	2.0E-04	L		
78831	Iobutane	2.59E+00	8.60E-02	9.30E-06	8.50E+04	4.83E-04	1.18E-05	25	381.04	547.78	10,936	0.0E+00	1.1E+00	L		
78875	1,2-Dichloropropane	4.37E-01	7.82E-02	8.73E-06	2.80E+03	1.15E-01	2.79E-03	25	369.52	572.00	7,590	1.0E-05	4.0E-03	L	X	
78933	Methyl ethylketone (2-butanon)	2.30E+00	8.08E-02	9.80E-06	2.23E+05	2.29E-03	5.58E-05	25	352.50	536.78	7,481	0.0E+00	5.0E+00	L		
79005	1,1,2-Trichloroethane	5.01E+01	7.80E-02	8.80E-06	4.42E+03	3.73E-02	9.11E-04	25	386.15	602.00	8,322	1.6E-05	2.0E-04	L		
79016	Trichloroethylene	1.66E+02	7.90E-02	9.10E-06	1.47E+03	4.21E-01	1.03E-02	25	360.36	544.20	7,505	4.1E-06	3.0E-03	L	X	
79209	Methyl acetate	3.26E+00	1.04E-01	1.00E-05	2.00E+03	4.84E-03	1.18E-04	25	329.80	506.70	7,260	0.0E+00	3.5E+00	L		
79345	1,2,2-Tetrachloroethane	9.33E+01	7.10E-02	7.90E-06	2.96E+03	1.41E-02	3.44E-04	25	419.60	661.15	8,996	5.8E-05	0.0E+00	L		
79469	2-Nitropropane	1.17E-01	1.02E-01	1.01E-05	1.70E+04	5.03E-03	1.23E-04	25	393.20	594.00	8,383	2.7E-03	2.0E-02	L		
80626	Methylmethacrylate	6.98E+00	7.70E-02	8.60E-06	1.50E+04	1.38E-02	3.36E-04	25	373.50	567.00	8,975	0.0E+00	7.0E-01	L		
83329	Acenaphthene	7.08E-03	4.21E-02	7.69E-06	3.57E+00	6.34E-03	1.55E-04	25	550.54	803.15	12,155	0.0E+00	0.0E+00	S	X	
86737	Fluorene	1.38E+04	3.63E-02	7.88E-06	1.98E+00	2.60E-03	6.34E-05	25	570.44	870.00	12,666	0.0E+00	0.0E+00	S	X	
87683	Hexachloro-1,3-butadiene	5.37E+04	5.61E-02	8.30E+00	3.33E-01	8.13E-03	4.80E-04	25	486.15	738.00	10,206	2.2E-05	0.0E+00	L		
88722																

## VLOOKUP TABLES

106423 p-Xylene	3.89E+02	7.69E-02	8.44E-06	1.85E+02	3.13E-01	7.64E-03	25	411.52	616.20	8,525	0.0E+00	1.0E-01	L
106467 1,4-Dichlorobenzene	6.17E+02	6.90E-02	7.90E-06	7.90E+01	9.82E-02	2.39E-03	25	447.21	684.75	9,271	1.1E-05	8.0E-01	S
106934 1,2-Dibromoethane (ethylene dibr	2.50E+01	2.17E-02	1.19E-05	4.18E+03	3.04E-02	7.41E-04	25	404.60	583.00	8,310	6.0E-04	9.0E-03	L
106990 1,3-Butadiene	1.91E+01	2.49E-01	1.08E-05	7.35E+02	3.01E+00	7.34E-02	25	268.60	425.00	5,370	3.0E-02	2.0E-03	L
107028 Acrolein	2.76E+00	1.05E-01	1.22E-05	2.13E+05	4.99E-03	1.22E-04	25	325.60	506.00	6,731	0.0E+00	2.0E-05	L
107062 1,2-Dichloroethane	1.74E+01	1.04E-01	9.90E-06	8.52E+03	4.00E-02	9.77E-04	25	356.65	561.00	7,643	2.6E-05	7.0E-03	L
107131 Acrylonitrile	5.90E+00	1.22E-01	1.34E-05	7.40E+04	4.21E-03	1.03E-04	25	350.30	519.00	7,786	6.8E-05	2.0E-03	L
108054 Vinyl acetate	5.25E+00	8.50E-02	9.20E-06	2.00E+04	2.09E-02	5.10E-04	25	345.65	519.13	7,800	0.0E+00	2.0E-01	L
108101 Methylisobutylketone (4-methyl-2-	9.06E+00	7.50E-02	7.80E-06	1.90E+04	5.64E-03	1.38E-04	25	389.50	571.00	8,243	0.0E+00	3.0E+00	L
108383 m-Xylene	4.07E+02	7.00E-02	7.80E-06	1.61E+02	3.00E-01	7.32E-03	25	412.27	617.05	8,523	0.0E+00	1.0E-01	L
108678 1,3,5-Trimethylbenzene	1.35E+03	6.02E-02	8.67E-06	2.00E+00	2.41E-01	5.87E-03	25	437.89	637.25	9,321	0.0E+00	7.0E-03	L
108872 Methylcyclohexane	7.85E+01	7.35E-02	8.52E-06	1.40E+01	4.22E+00	1.03E-01	25	373.90	572.20	7,474	0.0E+00	3.0E+00	L
108883 Toluene	1.82E+02	8.70E-02	8.60E-06	5.26E+02	2.72E-01	6.62E-03	25	383.78	591.79	7,930	0.0E+00	5.0E+00	L
108907 Chlorobenzene	2.19E+02	7.30E-02	8.70E-06	4.72E+02	1.51E-01	3.69E-03	25	404.87	632.40	8,410	0.0E+00	5.0E-02	L
109692 1-Chlorobutane	1.72E+01	8.26E-02	1.00E-05	1.10E-03	6.03E-01	1.60E-02	25	351.60	542.00	7,263	0.0E+00	1.4E-00	L
110009 Furan	1.86E+01	1.04E-01	1.22E-05	1.00E+04	2.21E-01	5.39E-03	25	304.60	490.20	6,477	0.0E+00	3.5E-03	X
110543 Hexane	4.34E+01	2.00E-01	7.77E-06	1.24E+01	6.82E+01	1.66E+00	25	341.70	508.00	6,895	0.0E+00	2.0E-01	L
111444 Bis(2-chloroethyl)ether	1.55E+01	6.92E-02	7.53E-06	1.72E+04	7.36E-04	1.80E-05	25	451.15	659.79	10,803	3.3E-04	0.0E+00	L
115297 Endosulfan	2.14E+03	1.15E-02	4.55E-06	5.10E-01	4.58E-04	1.12E-05	25	674.43	942.94	14,000	0.0E+00	2.1E-02	S
118741 Hexachlorobenzene	5.50E+04	5.42E-02	5.91E-06	5.00E-03	5.40E-02	1.32E-03	25	582.55	825.00	14,447	4.6E-04	0.0E+00	S
120821 1,2,4-Trichlorobenzene	1.78E+03	3.00E-02	8.23E-06	4.88E+01	5.81E-02	1.42E-03	25	486.15	725.00	10,471	0.0E+00	2.0E-03	L
123739 Crotonaldehyde (2-butenal)	4.82E+00	9.56E-02	1.07E-05	3.69E+04	7.99E-04	1.95E-05	25	375.20	568.00	9	5.4E-04	0.0E+00	L
124481 Chlordibromomethane	6.31E+01	1.96E-02	1.05E-02	2.60E+03	3.20E-02	7.81E-04	25	416.14	678.20	5,900	2.7E-05	0.0E+00	L
126987 Methacrylonitrile	3.58E+01	1.12E-01	1.32E-05	2.54E+04	1.01E-02	2.46E-04	25	363.30	554.00	7,600	0.0E+00	7.0E-04	L
126998 2-Chloro-1,3-butadiene (chloroprene	6.73E+01	8.58E-02	1.03E-05	2.12E+03	4.91E-01	1.20E-02	25	332.40	525.00	8,075	0.0E+00	7.0E-03	L
127184 Tetrachloroethylene	1.55E+02	7.20E-02	8.20E-06	2.00E+02	7.53E-01	1.84E-02	25	394.40	620.20	8,288	2.6E-07	6.0E-04	L
129000 Pyrene	1.05E+05	2.72E-02	7.24E-06	1.35E+00	4.50E-04	1.10E-05	25	667.95	936	14,370	0.0E+00	0.0E+00	S
132649 Dibenzofuran	5.15E+03	2.38E-02	6.00E-06	3.10E+00	5.15E-04	1.26E-05	25	560	824	66400	0.0E+00	0.0E+00	S
135988 sec-Butylbenzene	9.66E+02	5.70E-02	8.12E-06	3.94E+00	5.68E-01	1.39E-02	25	446.5	679	88730	0.0E+00	3.0E-02	L
141786 Ethylacetate	6.44E+00	7.32E-02	9.70E-06	8.03E+04	5.64E-03	1.38E-04	25	350.26	523.3	7633.66	0.0E+00	3.2E+00	L
156592 cis-1,2-Dichloroethylene	3.55E+01	7.36E-02	1.13E-05	3.50E+03	1.67E-01	4.07E-03	25	333.65	544	7192	0.0E+00	6.0E-02	L
156605 trans-1,2-Dichloroethylene	5.25E+01	7.07E-02	1.19E-05	6.30E+03	3.84E-01	9.36E-03	25	320.85	516.5	6717	0.0E+00	6.0E-02	L
541731 1,3-Dichlorobenzene	1.98E+03	6.92E-02	7.86E-06	1.34E+02	1.27E-01	3.09E-03	25	446	684	9230.18	0.0E+00	2.0E-01	L
309002 Aldrin	2.45E+06	1.32E-02	4.86E-06	1.70E-02	6.95E-03	1.70E-04	25	603.01	839.37	15000	4.9E-03	1.1E-04	S
319848 alpha-HCH (alpha-BHC)	1.23E+03	1.42E-02	7.34E-06	2.00E+00	4.34E-04	1.06E-05	25	596.55	839.36	15000	1.8E-03	0.0E+00	S
542758 1,3-Dichloropropene	4.57E+01	6.26E-02	1.00E-05	2.80E+03	7.24E-01	1.77E-02	25	381.15	587.38	7900	4.0E-06	2.0E-02	L
630208 1,1,1-Tetrachloroethane	1.16E+02	7.10E-02	7.90E-06	1.10E+03	9.00E-02	2.41E-03	25	403.5	624	9768.282825	7.4E-06	0.0E+00	L
1634044 MTBE	7.26E+00	1.02E-01	1.05E-05	5.10E+04	2.56E-02	6.23E-04	25	328.3	497.1	6677.66	0.0E+00	3.0E-09	L
743976 Mercury (elemental)	5.20E+01	3.07E-02	6.30E-06	2.00E+01	4.40E-01	1.07E-02	25	629.88	1750	14127	0.0E+00	3.0E-04	L
591786 2-Hexanone	1.50E+01	7.00E-02	8.40E-06	1.70E+04	3.80E-03	9.30E-05	25	400.8	587	8554	0.0E+00	3.0E-02	L

1,2,4-Trimethylbenzene

Benzene

trans-1,2-Dichloroethylene

1,2-Dichlorobenzene

Highlighted chemicals do not have inhalation toxicity values or a surrogate.



