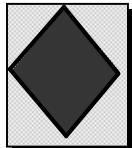




CalTOX™ 2.3 (beta): Eight-Compartment Multimedia Exposure Model

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Inputs:		Chemical name==> Naphtalène		Outputs: See Warnings Please			
		Site name => Riverfront Park - After - < 0.5 ans (User)		Target Soil Concentrations (in ppm)			
		Toxicity Data ==>		Based on cancer risk:			
			Cancer potencies 1/(mg/kg-d)	Non-cancer ADIs (mg/kg-d)	Root soil	0,0 E+0	not avlbl.
		Inhalation	0,0E+00	0,0E+00	Vadose soil	0,0 E+0	not avlbl.
		Ingestion	0,0E+00	2,0E-02			
		Dermal	0,0E+00	0,0E+00			
		Total dose		0,0E+00			
			Risk	Hazard quotient			
		Target Risk/Hazard =	1,0 E-05	1,00			
			current value	should be >			
Root-soil thickness ==>	0,30	3,3 E-1					
Alter root soil thickness to?	n/a						
Distance off-site for air exposure=	0	meters					
Time after initial concentrations when exposure begins =	365	days					
Measured Concentrations (at time = 0)							
Root-zone soil	0,09	ppm (mg/kg)					
Vadose-zone soil	1,1	ppm (mg/kg)					
Ground water	0	ppm (mg/L)					
Continuous inputs			Un-mitigated risk and/or hazard ratio				
Source term to air (mol/d)	0,0 E+00	Sa	Risk	0,0 E+0			
Source term to ground-surface soil (mol/d)	0,0 E+00	Sg	Hazard ratio	1,2 E-7			
Source term to root-zone soil (mol/d)	0,0 E+00	Ss	Concentration limits without NAPL				
Source term to surface water(mol/d)	0,0 E+00	Sw	Root soil	3,8 E+02	mg/kg solid		
			Vadose soil	1,6 E+03	mg/kg solid		
				3,4 E+01	mg/L water		
			Time avrg. Conc. in on-site environmental media				
			Air	4,5 E-07	mg/m3		
			Plants	9,8 E-07	mg/kg(FM)		
			Grnd-surface soil	3,9 E-04	mg/kg(total)		
			Root-zone soil	1,2 E-02	mg/kg(total)		
			Vadose-zone soil	3,7 E-01	mg/kg(total)		
			Ground water	1,8 E-06	mg/L(water)		
			Surface water	4,4 E-05	mg/L		
			Sediment	1,5 E-03	mg/kg		

MEDIA AND CORRESPONDING POTENTIAL DOSES IN mg/kg-d (averaged over the exposure duration)

PATHWAYS	Air (gases & particles)	Surface soil	Root-zone soil	Ground water	Surface water	Totals	%
INHALATION	5,74E-08	9,16E-13	2,74E-07	0,00E+00	0,00E+00	3,31E-07	99,88
INGESTION:							
Water				0,00E+00	0,00E+00	0,00E+00	0,00
Exposed produce	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Unexposed produce			0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Meat	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Milk	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Eggs	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Fish					0,00E+00	0,00E+00	0,00
Soil		1,21E-11	3,72E-10			3,84E-10	0,12
Total ingestion	0,00 E+00	1,21 E-11	3,72 E-10	0,00 E+00	0,00 E+00	3,84 E-10	0,12
DERMAL UPTAKE		3,97E-13	1,22E-11	0,00E+00	0,00E+00	1,26 E-11	0,00
Dose SUM	5,74E-08	1,34E-11	2,74E-07	0,00E+00	0,00E+00	3,32E-07	100,0

Breast milk concentration	Air (gases & particles)	Surface soil	Root-zone soil	Ground water	Surface water	total
	1,62 E-09	3,77 E-13	7,73 E-09	0,00 E+00	0,00 E+00	9,34 E-09
Infant dose	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	dose_bm 0,00 E+00

Ingestion dose used =>	3,84 E-10
Total dose used =>	3,32 E-07

ENVIRONMENTAL Media CONCENTRATIONS	Air (gases) mg/m^3	Air (dust) mg/m^3	Ground soil mg/kg	Root soil mg/kg	Ground water mg/L	Surface water mg/L
	4,54 E-07	3,22 E-13	4,13 E-04	1,27 E-02	1,77 E-06	4,41 E-05

EXPOSURE MEDIA CONCENTRATIONS (averaged over the exposure duration)

EXPOSURE	Air (gases)	Air (dust)	Ground soil	Root soil	Ground water	Surface water
Indoor air (mg/m ³)	4,54 E-07	1,89 E-13	7,27 E-12	2,17 E-06	0,00 E+00	0,00 E+00
Bathroom air (mg/m ³)					0,00 E+00	0,00 E+00
Outdoor air (mg/m ³)	4,54 E-07	3,22 E-13				
Tap water (mg/L)					0,00 E+00	0,00 E+00
Exposed produce (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Unexposed produce (mg/kg)				0,00 E+00	0,00 E+00	0,00 E+00
Meat (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Milk (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Eggs (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Fish and seafood (mg/kg)						4,56 E-03
Household soil (mg/kg)			2,07 E-04	6,36 E-03		
Swimming water (mg/L)						4,41 E-05

PATHWAY CONTACT FACTORS (CR/BW*FI)

EXPOSURE Media	Units	Inhalation	Ingestion	Dermal
Indoor air (active)		9,64 E-02		
Indoor air (resting)		2,97 E-02		
Indoor air (shower/bath)		0,00 E+00		
Outdoor air (active)		5,63 E-04		
Tap water			0,00 E+00	0,00 E+00
Exposed produce			0,00 E+00	
Unexposed produce			0,00 E+00	
Meat			0,00 E+00	
Milk			0,00 E+00	
Eggs			0,00 E+00	
Fish and seafood			0,00 E+00	
Household soil			5,85 E-08	1,92 E-09
Swimming wtr			0,00 E+00	0,00 E+00

Dose ratios	inh-dose/Ns	ing-dose/Ns	drml-dose/Ns	inh-dose/Nq	ing-dose/Nq	drml-dose/Nq
	9,8 E-08	1,1 E-10	3,7 E-12	0,0 E+00	0,0 E+00	0,0 E+00

Time (y)	Total inhalation dose	Total ingestion dose	Total dermal dose	Total dose	Total dose from root soil	Total dose from ground water
1	2,0 E-06	2,4 E-09	7,7 E-11	2,0 E-06	2,0 E-06	0,0 E+00
4	1,1 E-06	1,3 E-09	4,1 E-11	1,1 E-06	1,1 E-06	0,0 E+00
7	5,7 E-07	6,6 E-10	2,2 E-11	5,7 E-07	5,7 E-07	0,0 E+00
10	3,0 E-07	3,5 E-10	1,2 E-11	3,0 E-07	3,0 E-07	0,0 E+00
13	1,6 E-07	1,9 E-10	6,1 E-12	1,6 E-07	1,6 E-07	0,0 E+00
16	8,6 E-08	9,9 E-11	3,3 E-12	8,6 E-08	8,6 E-08	0,0 E+00
19	4,6 E-08	5,3 E-11	1,7 E-12	4,6 E-08	4,6 E-08	0,0 E+00
22	2,4 E-08	2,8 E-11	9,2 E-13	2,4 E-08	2,4 E-08	0,0 E+00
25	1,3 E-08	1,5 E-11	4,9 E-13	1,3 E-08	1,3 E-08	0,0 E+00
28	6,8 E-09	7,9 E-12	2,6 E-13	6,8 E-09	6,8 E-09	0,0 E+00
31	3,6 E-09	4,2 E-12	1,4 E-13	3,6 E-09	3,6 E-09	0,0 E+00
Cumulative doses				0,00363337		
over ED by route, mg/kg	3,6 E-03	4,2 E-06	1,4 E-07	3,6 E-03	3,6 E-03	0,0 E+00
fraction	0,9988	0,0012	0,0000	1,0000	1,000	0,000
Average doses						
over ED by route, mg/kg-d	3,3 E-07	3,8 E-10	1,3 E-11	3,3 E-07	3,3 E-07	0,0 E+00
Maximum doses						
over ED by route, mg/kg-d	2,0 E-06	2,4 E-09	7,7 E-11	2,0 E-06	2,0 E-06	0,0 E+00
fraction	0,9988	0,0012	0,0000	1,0000	1,000	0,000

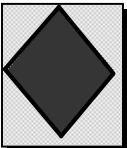
Max breast-milk dose 0,0 E+00 mg/kg-d

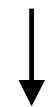
Max_ing	2,4 E-09
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CalTOX™ 2.3 (beta): Eight-Compartment Multimedia Exposure Model

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Inputs:		Chemical name==> Naphtalène		Outputs: See Warnings Please			
		Site name => Riverfront Park - After - 0.5-4 ans (User)		Target Soil Concentrations (in ppm)			
		Toxicity Data ==>		Based on cancer risk:			
			Cancer potencies 1/(mg/kg-d)	Non-cancer ADIs (mg/kg-d)	Root soil	0,0 E+0	not avlbl.
		Inhalation	0,0E+00	0,0E+00	Vadose soil	0,0 E+0	not avlbl.
		Ingestion	0,0E+00	2,0E-02			
		Dermal	0,0E+00	0,0E+00			
		Total dose		0,0E+00			
			Risk	Hazard quotient			
		Target Risk/Hazard =	1,0 E-05	1,00			
			current value	should be >			
Root-soil thickness ==>	0,30	3,3 E-1					
Alter root soil thickness to?	n/a						
Distance off-site for air exposure=	0	meters					
Time after initial concentrations when exposure begins =	365	days					
Measured Concentrations (at time = 0)							
Root-zone soil	0,09	ppm (mg/kg)					
Vadose-zone soil	1,1	ppm (mg/kg)					
Ground water	0	ppm (mg/L)					
Continuous inputs			Un-mitigated risk and/or hazard ratio				
Source term to air (mol/d)	0,0 E+00	Sa	Risk	0,0 E+0			
Source term to ground-surface soil (mol/d)	0,0 E+00	Sg	Hazard ratio	8,4 E-8			
Source term to root-zone soil (mol/d)	0,0 E+00	Ss					
Source term to surface water(mol/d)	0,0 E+00	Sw					
			Concentration limits without NAPL				
			Root soil	3,8 E+02	mg/kg solid		
			Vadose soil	1,6 E+03	mg/kg solid		
				3,4 E+01	mg/L water		
			Time avrg. Conc. in on-site environmental media				
			Air	4,5 E-07	mg/m3		
			Plants	9,8 E-07	mg/kg(FM)		
			Grnd-surface soil	3,9 E-04	mg/kg(total)		
			Root-zone soil	1,2 E-02	mg/kg(total)		
			Vadose-zone soil	3,7 E-01	mg/kg(total)		
			Ground water	1,8 E-06	mg/L(water)		
			Surface water	4,4 E-05	mg/L		
			Sediment	1,5 E-03	mg/kg		



MEDIA AND CORRESPONDING POTENTIAL DOSES IN mg/kg-d (averaged over the exposure duration)

PATHWAYS	Air (gases & particles)	Surface soil	Root-zone soil	Ground water	Surface water	Totals	%
INHALATION	1,27E-07	2,02E-12	6,04E-07	0,00E+00	0,00E+00	7,31E-07	99,96
INGESTION:							
Water				0,00E+00	0,00E+00	0,00E+00	0,00
Exposed produce	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Unexposed produce			0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Meat	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Milk	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Eggs	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Fish					0,00E+00	0,00E+00	0,00
Soil		8,58E-12	2,64E-10			2,73E-10	0,04
Total ingestion	0,00 E+00	8,58 E-12	2,64 E-10	0,00 E+00	0,00 E+00	2,73 E-10	0,04
DERMAL UPTAKE		8,42E-14	2,59E-12	0,00E+00	0,00E+00	2,68 E-12	0,00
Dose SUM	1,27E-07	1,07E-11	6,04E-07	0,00E+00	0,00E+00	7,31E-07	100,0

Breast milk concentration	Air (gases & particles)	Surface soil	Root-zone soil	Ground water	Surface water	total
	3,56 E-09	3,01 E-13	1,70 E-08	0,00 E+00	0,00 E+00	2,06 E-08
Infant dose	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	dose_bm 0,00 E+00

Ingestion dose used =>	2,73 E-10
Total dose used =>	7,31 E-07

ENVIRONMENTAL Media CONCENTRATIONS	Air (gases) mg/m^3	Air (dust) mg/m^3	Ground soil mg/kg	Root soil mg/kg	Ground water mg/L	Surface water mg/L
	4,54 E-07	3,22 E-13	4,13 E-04	1,27 E-02	1,77 E-06	4,41 E-05

EXPOSURE MEDIA CONCENTRATIONS (averaged over the exposure duration)

EXPOSURE	Air (gases)	Air (dust)	Ground soil	Root soil	Ground water	Surface water
Indoor air (mg/m ³)	4,54 E-07	1,89 E-13	7,27 E-12	2,17 E-06	0,00 E+00	0,00 E+00
Bathroom air (mg/m ³)					0,00 E+00	0,00 E+00
Outdoor air (mg/m ³)	4,54 E-07	3,22 E-13				
Tap water (mg/L)					0,00 E+00	0,00 E+00
Exposed produce (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Unexposed produce (mg/kg)				0,00 E+00	0,00 E+00	0,00 E+00
Meat (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Milk (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Eggs (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Fish and seafood (mg/kg)						4,56 E-03
Household soil (mg/kg)			2,07 E-04	6,36 E-03		
Swimming water (mg/L)						4,41 E-05

PATHWAY CONTACT FACTORS (CR/BW*FI)

EXPOSURE Media	Units	Inhalation	Ingestion	Dermal
Indoor air (active)		2,10 E-01		
Indoor air (resting)		6,75 E-02		
Indoor air (shower/bath)		0,00 E+00		
Outdoor air (active)		1,23 E-03		
Tap water			0,00 E+00	0,00 E+00
Exposed produce			0,00 E+00	
Unexposed produce			0,00 E+00	
Meat			0,00 E+00	
Milk			0,00 E+00	
Eggs			0,00 E+00	
Fish and seafood			0,00 E+00	
Household soil			4,15 E-08	4,08 E-10
Swimming wtr			0,00 E+00	0,00 E+00

Dose ratios	inh-dose/Ns	ing-dose/Ns	drml-dose/Ns	inh-dose/Nq	ing-dose/Nq	drml-dose/Nq
	2,2 E-07	8,0 E-11	7,9 E-13	0,0 E+00	0,0 E+00	0,0 E+00

Time (y)	Total inhalation dose	Total ingestion dose	Total dermal dose	Total dose	Total dose from root soil	Total dose from ground water
1	4,5 E-06	1,7 E-09	1,6 E-11	4,5 E-06	4,5 E-06	0,0 E+00
4	2,4 E-06	8,9 E-10	8,7 E-12	2,4 E-06	2,4 E-06	0,0 E+00
7	1,3 E-06	4,7 E-10	4,6 E-12	1,3 E-06	1,3 E-06	0,0 E+00
10	6,7 E-07	2,5 E-10	2,5 E-12	6,7 E-07	6,7 E-07	0,0 E+00
13	3,6 E-07	1,3 E-10	1,3 E-12	3,6 E-07	3,6 E-07	0,0 E+00
16	1,9 E-07	7,1 E-11	6,9 E-13	1,9 E-07	1,9 E-07	0,0 E+00
19	1,0 E-07	3,7 E-11	3,7 E-13	1,0 E-07	1,0 E-07	0,0 E+00
22	5,3 E-08	2,0 E-11	2,0 E-13	5,3 E-08	5,3 E-08	0,0 E+00
25	2,8 E-08	1,1 E-11	1,0 E-13	2,8 E-08	2,8 E-08	0,0 E+00
28	1,5 E-08	5,6 E-12	5,5 E-14	1,5 E-08	1,5 E-08	0,0 E+00
31	8,0 E-09	3,0 E-12	2,9 E-14	8,0 E-09	8,0 E-09	0,0 E+00
Cumulative doses				0,008002668		
over ED by route, mg/kg	8,0 E-03	3,0 E-06	2,9 E-08	8,0 E-03	8,0 E-03	0,0 E+00
fraction	0,9996	0,0004	0,0000	1,0000	1,000	0,000
Average doses						
over ED by route, mg/kg-d	7,3 E-07	2,7 E-10	2,7 E-12	7,3 E-07	7,3 E-07	0,0 E+00
Maximum doses						
over ED by route, mg/kg-d	4,5 E-06	1,7 E-09	1,6 E-11	4,5 E-06	4,5 E-06	0,0 E+00
fraction	0,9996	0,0004	0,0000	1,0000	1,000	0,000

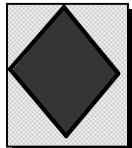
Max breast-milk dose 0,0 E+00 mg/kg-d

Max_ing	1,7 E-09
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CalTOX™ 2.3 (beta): Eight-Compartment Multimedia Exposure Model

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Inputs:		Chemical name==> Naphtalène		Outputs: See Warnings Please			
		Site name => Riverfront Park - After - 5-11 ans (User)		Target Soil Concentrations (in ppm)			
		Toxicity Data ==>		Based on cancer risk:			
			Cancer potencies 1/(mg/kg-d)	Non-cancer ADIs (mg/kg-d)	Root soil	0,0 E+0	not avlbl.
		Inhalation	0,0E+00	0,0E+00	Vadose soil	0,0 E+0	not avlbl.
		Ingestion	0,0E+00	2,0E-02			
		Dermal	0,0E+00	0,0E+00			
		Total dose		0,0E+00			
			Risk	Hazard quotient			
		Target Risk/Hazard =	1,0 E-05	1,00			
			current value	should be >			
Root-soil thickness ==>	0,30	3,3 E-1					
Alter root soil thickness to?	n/a						
Distance off-site for air exposure=	0	meters					
Time after initial concentrations when exposure begins =	365	days					
Measured Concentrations (at time = 0)							
Root-zone soil	0,09	ppm (mg/kg)					
Vadose-zone soil	1,1	ppm (mg/kg)					
Ground water	0	ppm (mg/L)					
Continuous inputs			Un-mitigated risk and/or hazard ratio				
Source term to air (mol/d)	0,0 E+00	Sa	Risk	0,0 E+0			
Source term to ground-surface soil (mol/d)	0,0 E+00	Sg	Hazard ratio	2,9 E-8			
Source term to root-zone soil (mol/d)	0,0 E+00	Ss	Concentration limits without NAPL				
Source term to surface water(mol/d)	0,0 E+00	Sw	Root soil	3,8 E+02	mg/kg solid		
			Vadose soil	1,6 E+03	mg/kg solid		
				3,4 E+01	mg/L water		
			Time avrg. Conc. in on-site environmental media				
			Air	4,5 E-07	mg/m3		
			Plants	9,8 E-07	mg/kg(FM)		
			Grnd-surface soil	3,9 E-04	mg/kg(total)		
			Root-zone soil	1,2 E-02	mg/kg(total)		
			Vadose-zone soil	3,7 E-01	mg/kg(total)		
			Ground water	1,8 E-06	mg/L(water)		
			Surface water	4,4 E-05	mg/L		
			Sediment	1,5 E-03	mg/kg		

MEDIA AND CORRESPONDING POTENTIAL DOSES IN mg/kg-d (averaged over the exposure duration)

PATHWAYS	Air (gases & particles)	Surface soil	Root-zone soil	Ground water	Surface water	Totals	%
INHALATION	9,89E-08	1,58E-12	4,72E-07	0,00E+00	0,00E+00	5,71E-07	99,98
INGESTION:							
Water				0,00E+00	0,00E+00	0,00E+00	0,00
Exposed produce	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Unexposed produce			0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Meat	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Milk	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Eggs	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Fish					0,00E+00	0,00E+00	0,00
Soil		3,01E-12	9,27E-11			9,57E-11	0,02
Total ingestion	0,00 E+00	3,01 E-12	9,27 E-11	0,00 E+00	0,00 E+00	9,57 E-11	0,02
DERMAL UPTAKE		3,50E-14	1,08E-12	0,00E+00	0,00E+00	1,11 E-12	0,00
Dose SUM	9,89E-08	4,62E-12	4,72E-07	0,00E+00	0,00E+00	5,71E-07	100,0

Breast milk concentration	Air (gases & particles)	Surface soil	Root-zone soil	Ground water	Surface water	total
	2,78 E-09	1,30 E-13	1,33 E-08	0,00 E+00	0,00 E+00	1,61 E-08
Infant dose	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	dose_bm 0,00 E+00

Ingestion dose used =>	9,57 E-11
Total dose used =>	5,71 E-07

ENVIRONMENTAL Media CONCENTRATIONS	Air (gases) mg/m^3	Air (dust) mg/m^3	Ground soil mg/kg	Root soil mg/kg	Ground water mg/L	Surface water mg/L
	4,54 E-07	3,22 E-13	4,13 E-04	1,27 E-02	1,77 E-06	4,41 E-05

EXPOSURE MEDIA CONCENTRATIONS (averaged over the exposure duration)

EXPOSURE	Air (gases)	Air (dust)	Ground soil	Root soil	Ground water	Surface water
Indoor air (mg/m ³)	4,54 E-07	1,89 E-13	7,27 E-12	2,17 E-06	0,00 E+00	0,00 E+00
Bathroom air (mg/m ³)					0,00 E+00	0,00 E+00
Outdoor air (mg/m ³)	4,54 E-07	3,22 E-13				
Tap water (mg/L)					0,00 E+00	0,00 E+00
Exposed produce (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Unexposed produce (mg/kg)				0,00 E+00	0,00 E+00	0,00 E+00
Meat (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Milk (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Eggs (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Fish and seafood (mg/kg)						4,56 E-03
Household soil (mg/kg)			2,07 E-04	6,36 E-03		
Swimming water (mg/L)						4,41 E-05

PATHWAY CONTACT FACTORS (CR/BW*FI)

EXPOSURE Media	Units	Inhalation	Ingestion	Dermal
Indoor air (active)		1,65 E-01		
Indoor air (resting)		5,17 E-02		
Indoor air (shower/bath)		0,00 E+00		
Outdoor air (active)		9,66 E-04		
Tap water			0,00 E+00	0,00 E+00
Exposed produce			0,00 E+00	
Unexposed produce			0,00 E+00	
Meat			0,00 E+00	
Milk			0,00 E+00	
Eggs			0,00 E+00	
Fish and seafood			0,00 E+00	
Household soil			1,46 E-08	1,70 E-10
Swimming wtr			0,00 E+00	0,00 E+00

Dose ratios	inh-dose/Ns	ing-dose/Ns	drml-dose/Ns	inh-dose/Nq	ing-dose/Nq	drml-dose/Nq
	1,7 E-07	2,8 E-11	3,3 E-13	0,0 E+00	0,0 E+00	0,0 E+00

Time (y)	Total inhalation dose	Total ingestion dose	Total dermal dose	Total dose	Total dose from root soil	Total dose from ground water
1	3,5 E-06	5,9 E-10	6,8 E-12	3,5 E-06	3,5 E-06	0,0 E+00
4	1,9 E-06	3,1 E-10	3,6 E-12	1,9 E-06	1,9 E-06	0,0 E+00
7	9,9 E-07	1,7 E-10	1,9 E-12	9,9 E-07	9,9 E-07	0,0 E+00
10	5,2 E-07	8,8 E-11	1,0 E-12	5,2 E-07	5,2 E-07	0,0 E+00
13	2,8 E-07	4,7 E-11	5,4 E-13	2,8 E-07	2,8 E-07	0,0 E+00
16	1,5 E-07	2,5 E-11	2,9 E-13	1,5 E-07	1,5 E-07	0,0 E+00
19	7,8 E-08	1,3 E-11	1,5 E-13	7,8 E-08	7,8 E-08	0,0 E+00
22	4,2 E-08	7,0 E-12	8,1 E-14	4,2 E-08	4,2 E-08	0,0 E+00
25	2,2 E-08	3,7 E-12	4,3 E-14	2,2 E-08	2,2 E-08	0,0 E+00
28	1,2 E-08	2,0 E-12	2,3 E-14	1,2 E-08	1,2 E-08	0,0 E+00
31	6,2 E-09	1,0 E-12	1,2 E-14	6,2 E-09	6,2 E-09	0,0 E+00
Cumulative doses				0,006249936		
over ED by route, mg/kg	6,2 E-03	1,0 E-06	1,2 E-08	6,2 E-03	6,2 E-03	0,0 E+00
fraction	0,9998	0,0002	0,0000	1,0000	1,000	0,000
Average doses						
over ED by route, mg/kg-d	5,7 E-07	9,6 E-11	1,1 E-12	5,7 E-07	5,7 E-07	0,0 E+00
Maximum doses						
over ED by route, mg/kg-d	3,5 E-06	5,9 E-10	6,8 E-12	3,5 E-06	3,5 E-06	0,0 E+00
fraction	0,9998	0,0002	0,0000	1,0000	1,000	0,000

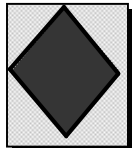
Max breast-milk dose 0,0 E+00 mg/kg-d

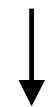
Max_ing	5,9 E-10
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CalTOX™ 2.3 (beta): Eight-Compartment Multimedia Exposure Model

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Inputs:		Chemical name==> Naphtalène		Outputs: See Warnings Please			
		Site name => Riverfront Park - After - 12-19 ans (User)		Target Soil Concentrations (in ppm)			
		Toxicity Data ==>		Based on cancer risk:			
			Cancer potencies 1/(mg/kg-d)	Non-cancer ADIs (mg/kg-d)	Root soil	0,0 E+0	not avlbl.
		Inhalation	0,0E+00	0,0E+00	Vadose soil	0,0 E+0	not avlbl.
		Ingestion	0,0E+00	2,0E-02			
		Dermal	0,0E+00	0,0E+00			
		Total dose		0,0E+00			
			Risk	Hazard quotient			
		Target Risk/Hazard =	1,0 E-05	1,00			
			current value	should be >			
Root-soil thickness ==>	0,30	3,3 E-1					
Alter root soil thickness to?	n/a						
Distance off-site for air exposure=	0	meters					
Time after initial concentrations when exposure begins =	365	days					
Measured Concentrations (at time = 0)							
Root-zone soil	0,09	ppm (mg/kg)					
Vadose-zone soil	1,1	ppm (mg/kg)					
Ground water	0	ppm (mg/L)					
Continuous inputs			Un-mitigated risk and/or hazard ratio				
Source term to air (mol/d)	0,0 E+00	Sa	Risk	0,0 E+0			
Source term to ground-surface soil (mol/d)	0,0 E+00	Sg	Hazard ratio	9,3 E-9			
Source term to root-zone soil (mol/d)	0,0 E+00	Ss	Concentration limits without NAPL				
Source term to surface water(mol/d)	0,0 E+00	Sw	Root soil	3,8 E+02	mg/kg solid		
			Vadose soil	1,6 E+03	mg/kg solid		
				3,4 E+01	mg/L water		
			Time avrg. Conc. in on-site environmental media				
			Air	4,5 E-07	mg/m3		
			Plants	9,8 E-07	mg/kg(FM)		
			Grnd-surface soil	3,9 E-04	mg/kg(total)		
			Root-zone soil	1,2 E-02	mg/kg(total)		
			Vadose-zone soil	3,7 E-01	mg/kg(total)		
			Ground water	1,8 E-06	mg/L(water)		
			Surface water	4,4 E-05	mg/L		
			Sediment	1,5 E-03	mg/kg		



MEDIA AND CORRESPONDING POTENTIAL DOSES IN mg/kg-d (averaged over the exposure duration)

PATHWAYS	Air (gases & particles)	Surface soil	Root-zone soil	Ground water	Surface water	Totals	%
INHALATION	6,49E-08	1,04E-12	3,10E-07	0,00E+00	0,00E+00	3,75E-07	99,99
INGESTION:							
Water				0,00E+00	0,00E+00	0,00E+00	0,00
Exposed produce	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Unexposed produce			0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Meat	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Milk	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Eggs	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Fish					0,00E+00	0,00E+00	0,00
Soil		9,48E-13	2,92E-11			3,01E-11	0,01
Total ingestion	0,00 E+00	9,48 E-13	2,92 E-11	0,00 E+00	0,00 E+00	3,01 E-11	0,01
DERMAL UPTAKE		1,62E-14	5,00E-13	0,00E+00	0,00E+00	5,16 E-13	0,00
Dose SUM	6,49E-08	2,00E-12	3,10E-07	0,00E+00	0,00E+00	3,75E-07	100,0

Breast milk concentration	Air (gases & particles)	Surface soil	Root-zone soil	Ground water	Surface water	total
	1,83 E-09	5,64 E-14	8,74 E-09	0,00 E+00	0,00 E+00	1,06 E-08
Infant dose	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	dose_bm 0,00 E+00

Ingestion dose used =>	3,01 E-11
Total dose used =>	3,75 E-07

ENVIRONMENTAL Media CONCENTRATIONS	Air (gases) mg/m^3	Air (dust) mg/m^3	Ground soil mg/kg	Root soil mg/kg	Ground water mg/L	Surface water mg/L
	4,54 E-07	3,22 E-13	4,13 E-04	1,27 E-02	1,77 E-06	4,41 E-05

EXPOSURE MEDIA CONCENTRATIONS (averaged over the exposure duration)

EXPOSURE	Air (gases)	Air (dust)	Ground soil	Root soil	Ground water	Surface water
Indoor air (mg/m ³)	4,54 E-07	1,89 E-13	7,27 E-12	2,17 E-06	0,00 E+00	0,00 E+00
Bathroom air (mg/m ³)					0,00 E+00	0,00 E+00
Outdoor air (mg/m ³)	4,54 E-07	3,22 E-13				
Tap water (mg/L)					0,00 E+00	0,00 E+00
Exposed produce (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Unexposed produce (mg/kg)				0,00 E+00	0,00 E+00	0,00 E+00
Meat (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Milk (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Eggs (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Fish and seafood (mg/kg)						4,56 E-03
Household soil (mg/kg)			2,07 E-04	6,36 E-03		
Swimming water (mg/L)						4,41 E-05

PATHWAY CONTACT FACTORS (CR/BW*FI)

EXPOSURE Media	Units	Inhalation	Ingestion	Dermal
Indoor air (active)		1,12 E-01		
Indoor air (resting)		3,10 E-02		
Indoor air (shower/bath)		0,00 E+00		
Outdoor air (active)		2,90 E-04		
Tap water			0,00 E+00	0,00 E+00
Exposed produce			0,00 E+00	
Unexposed produce			0,00 E+00	
Meat			0,00 E+00	
Milk			0,00 E+00	
Eggs			0,00 E+00	
Fish and seafood			0,00 E+00	
Household soil			4,59 E-09	7,86 E-11
Swimming wtr			0,00 E+00	0,00 E+00

Dose ratios	inh-dose/Ns	ing-dose/Ns	drml-dose/Ns	inh-dose/Nq	ing-dose/Nq	drml-dose/Nq
	1,1 E-07	8,9 E-12	1,5 E-13	0,0 E+00	0,0 E+00	0,0 E+00

Time (y)	Total inhalation dose	Total ingestion dose	Total dermal dose	Total dose	Total dose from root soil	Total dose from ground water
1	2,3 E-06	1,9 E-10	3,2 E-12	2,3 E-06	2,3 E-06	0,0 E+00
4	1,2 E-06	9,8 E-11	1,7 E-12	1,2 E-06	1,2 E-06	0,0 E+00
7	6,5 E-07	5,2 E-11	8,9 E-13	6,5 E-07	6,5 E-07	0,0 E+00
10	3,4 E-07	2,8 E-11	4,7 E-13	3,4 E-07	3,4 E-07	0,0 E+00
13	1,8 E-07	1,5 E-11	2,5 E-13	1,8 E-07	1,8 E-07	0,0 E+00
16	9,7 E-08	7,8 E-12	1,3 E-13	9,7 E-08	9,7 E-08	0,0 E+00
19	5,2 E-08	4,1 E-12	7,1 E-14	5,2 E-08	5,2 E-08	0,0 E+00
22	2,7 E-08	2,2 E-12	3,8 E-14	2,7 E-08	2,7 E-08	0,0 E+00
25	1,5 E-08	1,2 E-12	2,0 E-14	1,5 E-08	1,5 E-08	0,0 E+00
28	7,7 E-09	6,2 E-13	1,1 E-14	7,7 E-09	7,7 E-09	0,0 E+00
31	4,1 E-09	3,3 E-13	5,6 E-15	4,1 E-09	4,1 E-09	0,0 E+00
Cumulative doses				0,004108424		
over ED by route, mg/kg	4,1 E-03	3,3 E-07	5,7 E-09	4,1 E-03	4,1 E-03	0,0 E+00
fraction	0,9999	0,0001	0,0000	1,0000	1,000	0,000
Average doses						
over ED by route, mg/kg-d	3,8 E-07	3,0 E-11	5,2 E-13	3,8 E-07	3,8 E-07	0,0 E+00
Maximum doses						
over ED by route, mg/kg-d	2,3 E-06	1,9 E-10	3,2 E-12	2,3 E-06	2,3 E-06	0,0 E+00
fraction	0,9999	0,0001	0,0000	1,0000	1,000	0,000

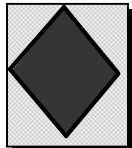
Max breast-milk dose 0,0 E+00 mg/kg-d

Max_ing	1,9 E-10
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CalTOX™ 2.3 (beta): Eight-Compartment Multimedia Exposure Model

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Inputs:		Chemical name==> Naphtalène		Outputs: See Warnings Please			
		Site name => Riverfront Park - After - > 20 ans (User)		Target Soil Concentrations (in ppm)			
		Toxicity Data ==>		Based on cancer risk:			
			Cancer potencies 1/(mg/kg-d)	Non-cancer ADIs (mg/kg-d)	Root soil	0,0 E+0	not avlbl.
		Inhalation	0,0E+00	0,0E+00	Vadose soil	0,0 E+0	not avlbl.
		Ingestion	0,0E+00	2,0E-02			
		Dermal	0,0E+00	0,0E+00			
		Total dose		0,0E+00			
			Risk	Hazard quotient			
		Target Risk/Hazard =	1,0 E-05	1,00			
			current value	should be >			
Root-soil thickness ==>	0,30	3,3 E-1					
Alter root soil thickness to?	n/a						
Distance off-site for air exposure=	0	meters					
Time after initial concentrations when exposure begins =	365	days					
Measured Concentrations (at time = 0)							
Root-zone soil	0,09	ppm (mg/kg)					
Vadose-zone soil	1,1	ppm (mg/kg)					
Ground water	0	ppm (mg/L)					
Continuous inputs			Un-mitigated risk and/or hazard ratio				
Source term to air (mol/d)	0,0 E+00	Sa	Risk	0,0 E+0			
Source term to ground-surface soil (mol/d)	0,0 E+00	Sg	Hazard ratio	7,8 E-9			
Source term to root-zone soil (mol/d)	0,0 E+00	Ss	Concentration limits without NAPL				
Source term to surface water(mol/d)	0,0 E+00	Sw	Root soil	3,8 E+02	mg/kg solid		
			Vadose soil	1,6 E+03	mg/kg solid		
				3,4 E+01	mg/L water		
			Time avrg. Conc. in on-site environmental media				
			Air	4,5 E-07	mg/m3		
			Plants	9,8 E-07	mg/kg(FM)		
			Grnd-surface soil	3,9 E-04	mg/kg(total)		
			Root-zone soil	1,2 E-02	mg/kg(total)		
			Vadose-zone soil	3,7 E-01	mg/kg(total)		
			Ground water	1,8 E-06	mg/L(water)		
			Surface water	4,4 E-05	mg/L		
			Sediment	1,5 E-03	mg/kg		

MEDIA AND CORRESPONDING POTENTIAL DOSES IN mg/kg-d (averaged over the exposure duration)

PATHWAYS	Air (gases & particles)	Surface soil	Root-zone soil	Ground water	Surface water	Totals	%
INHALATION	5,48E-08	8,76E-13	2,62E-07	0,00E+00	0,00E+00	3,17E-07	99,99
INGESTION:							
Water				0,00E+00	0,00E+00	0,00E+00	0,00
Exposed produce	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Unexposed produce			0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Meat	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Milk	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Eggs	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00
Fish					0,00E+00	0,00E+00	0,00
Soil		8,01E-13	2,47E-11			2,55E-11	0,01
Total ingestion	0,00 E+00	8,01 E-13	2,47 E-11	0,00 E+00	0,00 E+00	2,55 E-11	0,01
DERMAL UPTAKE		1,32E-14	4,06E-13	0,00E+00	0,00E+00	4,20 E-13	0,00
Dose SUM	5,48E-08	1,69E-12	2,62E-07	0,00E+00	0,00E+00	3,17E-07	100,0

Breast milk concentration	Air (gases & particles)	Surface soil	Root-zone soil	Ground water	Surface water	total
	1,54 E-09	4,76 E-14	7,38 E-09	0,00 E+00	0,00 E+00	8,92 E-09
Infant dose	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	dose_bm 0,00 E+00

Ingestion dose used =>	2,55 E-11
Total dose used =>	3,17 E-07

ENVIRONMENTAL Media CONCENTRATIONS	Air (gases) mg/m^3	Air (dust) mg/m^3	Ground soil mg/kg	Root soil mg/kg	Ground water mg/L	Surface water mg/L
	4,54 E-07	3,22 E-13	4,13 E-04	1,27 E-02	1,77 E-06	4,41 E-05

EXPOSURE MEDIA CONCENTRATIONS (averaged over the exposure duration)

EXPOSURE	Air (gases)	Air (dust)	Ground soil	Root soil	Ground water	Surface water
Indoor air (mg/m ³)	4,54 E-07	1,89 E-13	7,27 E-12	2,17 E-06	0,00 E+00	0,00 E+00
Bathroom air (mg/m ³)					0,00 E+00	0,00 E+00
Outdoor air (mg/m ³)	4,54 E-07	3,22 E-13				
Tap water (mg/L)					0,00 E+00	0,00 E+00
Exposed produce (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Unexposed produce (mg/kg)				0,00 E+00	0,00 E+00	0,00 E+00
Meat (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Milk (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Eggs (mg/kg)	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Fish and seafood (mg/kg)						4,56 E-03
Household soil (mg/kg)			2,07 E-04	6,36 E-03		
Swimming water (mg/L)						4,41 E-05

PATHWAY CONTACT FACTORS (CR/BW*FI)

EXPOSURE Media	Units	Inhalation	Ingestion	Dermal
Indoor air (active)		9,43 E-02		
Indoor air (resting)		2,62 E-02		
Indoor air (shower/bath)		0,00 E+00		
Outdoor air (active)		2,45 E-04		
Tap water			0,00 E+00	0,00 E+00
Exposed produce			0,00 E+00	
Unexposed produce			0,00 E+00	
Meat			0,00 E+00	
Milk			0,00 E+00	
Eggs			0,00 E+00	
Fish and seafood			0,00 E+00	
Household soil			3,88 E-09	6,39 E-11
Swimming wtr			0,00 E+00	0,00 E+00

Dose ratios	inh-dose/Ns	ing-dose/Ns	drml-dose/Ns	inh-dose/Nq	ing-dose/Nq	drml-dose/Nq
	9,3 E-08	7,5 E-12	1,2 E-13	0,0 E+00	0,0 E+00	0,0 E+00

Time (y)	Total inhalation dose	Total ingestion dose	Total dermal dose	Total dose	Total dose from root soil	Total dose from ground water
1	1,9 E-06	1,6 E-10	2,6 E-12	1,9 E-06	1,9 E-06	0,0 E+00
4	1,0 E-06	8,3 E-11	1,4 E-12	1,0 E-06	1,0 E-06	0,0 E+00
7	5,5 E-07	4,4 E-11	7,3 E-13	5,5 E-07	5,5 E-07	0,0 E+00
10	2,9 E-07	2,3 E-11	3,9 E-13	2,9 E-07	2,9 E-07	0,0 E+00
13	1,5 E-07	1,2 E-11	2,0 E-13	1,5 E-07	1,5 E-07	0,0 E+00
16	8,2 E-08	6,6 E-12	1,1 E-13	8,2 E-08	8,2 E-08	0,0 E+00
19	4,4 E-08	3,5 E-12	5,8 E-14	4,4 E-08	4,4 E-08	0,0 E+00
22	2,3 E-08	1,9 E-12	3,1 E-14	2,3 E-08	2,3 E-08	0,0 E+00
25	1,2 E-08	9,9 E-13	1,6 E-14	1,2 E-08	1,2 E-08	0,0 E+00
28	6,5 E-09	5,2 E-13	8,6 E-15	6,5 E-09	6,5 E-09	0,0 E+00
31	3,5 E-09	2,8 E-13	4,6 E-15	3,5 E-09	3,5 E-09	0,0 E+00
Cumulative doses				0,003469207		
over ED by route, mg/kg	3,5 E-03	2,8 E-07	4,6 E-09	3,5 E-03	3,5 E-03	0,0 E+00
fraction	0,9999	0,0001	0,0000	1,0000	1,000	0,000
Average doses						
over ED by route, mg/kg-d	3,2 E-07	2,5 E-11	4,2 E-13	3,2 E-07	3,2 E-07	0,0 E+00
Maximum doses						
over ED by route, mg/kg-d	1,9 E-06	1,6 E-10	2,6 E-12	1,9 E-06	1,9 E-06	0,0 E+00
fraction	0,9999	0,0001	0,0000	1,0000	1,000	0,000

Max breast-milk dose 0,0 E+00 mg/kg-d

Max_ing	1,6 E-10
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