

S-Risk report - Exercice_experts_simulation_4

Administrative information

Name: Exercice_experts_simulation_4
Label: SC
Application: II Site specific risk assessment
Region: Wallonia
Description:

Main results

	Highest RI	Highest ExCR	Highest pRI	Highest CI
Chemical	(>1)	(>10 ⁻⁵)	(>1)	(>1)
Ethylbenzene	4.625e-2	2.800e-5		(Indoor air CI)

Conceptual site model

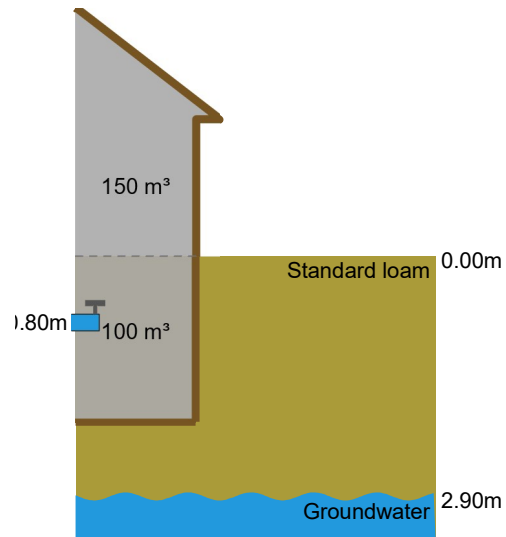
Scenario

Land use: Light industry
Based on: Light industry

Exposure routes

Oral	Inhalation	Dermal
<input checked="" type="checkbox"/> soil & settled dust	<input checked="" type="checkbox"/> via outdoor air	<input checked="" type="checkbox"/> via soil & settled dust
<input type="checkbox"/> vegetables	<input checked="" type="checkbox"/> via indoor air	<input type="checkbox"/> via water (bath & shower)
<input type="checkbox"/> via meat & milk	<input type="checkbox"/> during showering	
<input type="checkbox"/> via eggs		
<input checked="" type="checkbox"/> via water		

Soil profile & concentrations



Site characteristics

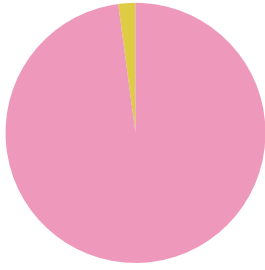
Building type		Basement
Floor thickness	m	0.1
Floor quality setting		Gaps and holes
Drinking water pipe depth	m	0.8
Length of the site	m	50.0

		Standard loam	Groundwater
Layer properties			
Top of layer	m	0.0	2.9
OM	%	2.1	
Clay content	%	15.0	
pH _{KCl}		5.800e+0	
Concentrations		mg/kg dm	µg/l (Calculated)
Ethylbenzene		6.500e+0	1.369e+3

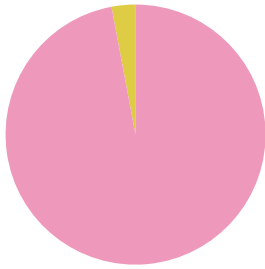
Results per chemical

Ethylbenzene

Risk indexes

**Threshold effect, systemic**

	Age group 1	Age group 2	Age group 3
Oral RI for systemic threshold effects	0	0	9.741e-4
Dermal RI for systemic threshold effects	0	0	3.824e-7
Inhalation RI for systemic threshold effects	0	0	4.528e-2
Overall RI for systemic threshold effects	0	0	4.625e-2

**Non-threshold, systemic**

	Age group 1	Age group 2	Age group 3	Lifelong
Oral ExCR for systemic non-threshold effects	0	0	1.039e-6	8.315e-7
Dermal ExCR for systemic non-threshold effects	0	0	4.080e-10	3.264e-10
Inhalation ExCR for systemic non-threshold effects	0	0	3.396e-5	2.717e-5
Overall ExCR for systemic non-threshold effects	0	0	3.500e-5	2.800e-5

Concentration indexes

Concentration index	Limit value
CI Environment	mg/m³
Water CI	
Outdoor air CI	
Indoor air CI	
CI Animal products	mg/kg fw
Beef CI	
Sheep meat CI	
Liver CI	
Kidney CI	
Milk CI	

	Concentration index	Limit value
Butter CI		
Egg CI		
CI feed crops		mg/kg fw
Grass CI		
Maize CI		

Exposure overview

	1-<6 yr		6-<15 yr		15-<71 yr	
	mg/kg bw·d or mg/m ³		mg/kg bw·d or mg/m ³		mg/kg bw·d or mg/m ³	
Oral intake	7.439e-5		5.258e-5		9.449e-5	
intake via eggs	0	0.0%	0	0.0%	0	0.0%
intake via local vegetables	0	0.0%	0	0.0%	0	0.0%
intake via meat & milk	0	0.0%	0	0.0%	0	0.0%
soil & dust ingestion	0	0.0%	0	0.0%	7.685e-7	0.8%
intake via water	7.439e-5	100.0%	5.258e-5	100.0%	9.372e-5	99.2%
Dermal intake	0		0		3.709e-8	
uptake via bathing	0	%	0	%	0	0.0%
uptake via showering	0	%	0	%	0	0.0%
uptake via soil & dust	0	%	0	%	3.709e-8	100.0%
Intake via inhalation	0		0		1.358e-2	
inhalation of indoor air	0	%	0	%	1.358e-2	100.0%
inhalation of outdoor air	0	%	0	%	1.976e-6	0.0%
inhalation during showering	0	%	0	%	0	0.0%

(*) Refer to the full report for more information about these values.

Local vs background exposure

	1-<6 yr		6-<15 yr		15-<71 yr	
	mg/kg bw·d or mg/m ³		mg/kg bw·d or mg/m ³		mg/kg bw·d or mg/m ³	
Oral	7.439e-5		5.258e-5		9.449e-5	
background oral exposure	0	0.0%	0	0.0%	0	0.0%
local oral exposure	7.439e-5	100.0%	5.258e-5	100.0%	9.449e-5	100.0%
Inhal	0		0		1.358e-2	

	1-<6 yr		6-<15 yr		15-<71 yr	
	mg/kg bw·d or mg/m ³	%	mg/kg bw·d or mg/m ³	%	mg/kg bw·d or mg/m ³	%
background inhalation exposure	0	%	0	%	0	0.0%
local inhalation exposure	0	%	0	%	1.358e-2	100.0%

(*) Refer to the full report for more information about these values.

List of user-modified parameters

In the table below user-modified parameters are listed like they are saved in the system. If the format of the values shown is not immediately clear, refer to the extended report for more details.

Topic	Soil layer	Chemical	Parameter	Value	Comment
Soil	Standard loam (0.0m)		Clay content	1.5E1	
Soil	Standard loam (0.0m)		Organic matter content	2.1E0	
Soil	Standard loam (0.0m)		Top of layer	0.0E0	
Soil	Standard loam (0.0m)	Ethylbenzene	Measured soil layer concentration	6.5	
Water			Depth of the groundwater table	2.9	

Version: 1.3.0 - Calculated with version: 1.3.0 - Region: Wallonia