

# S-Risk report - Exercice\_experts\_simulation\_8

## Administrative information

**Name:** Exercice\_experts\_simulation\_8  
**Label:** SC  
**Application:** II Site specific risk assessment  
**Region:** Wallonia  
**Description:**

## Main results

	Highest RI	Highest ExCR	Highest pRI	Highest CI
<b>Chemical</b>	(>1)	(>10 <sup>-5</sup> )	(>1)	(>1)
Trichloroethene	8.482e-1	6.220e-6		6.252e-1 (Water CI)

## Conceptual site model

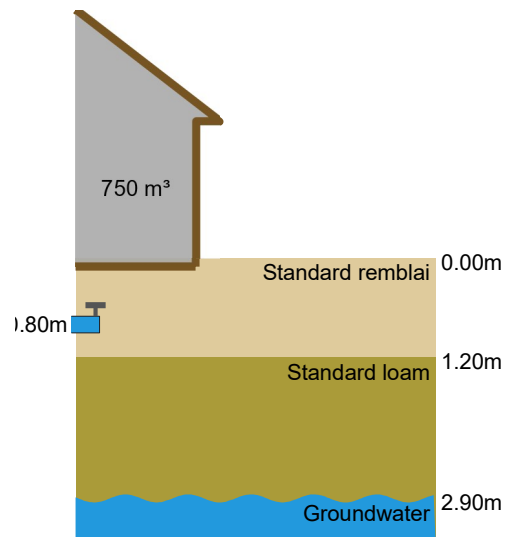
### Scenario

**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

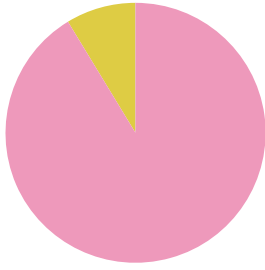
Building type		Slab-on-grade
Floor thickness	m	0.1
Floor quality setting		Gaps and holes
Drinking water pipe depth	m	0.8
Length of the site	m	50.0

		Standard remblai	Standard loam	Groundwater
<b>Layer properties</b>				
Top of layer	m	0.0	1.2	2.9
OM	%	7.4	2.1	
Clay content	%	5.5	15.0	
pH <sub>KCl</sub>		7.500e+0	5.800e+0	
<b>Concentrations</b>		<b>mg/kg dm</b>	<b>mg/kg dm</b>	<b>µg/l (Calculated)</b>
Trichloroethene		4.800e+0	0	6.950e+2

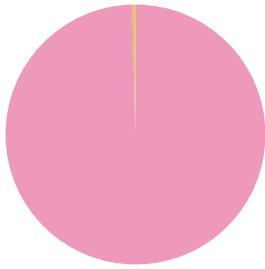
## Results per chemical

### Trichloroethene

#### Risk indexes



Threshold effect, systemic	Age group 1	Age group 2	Age group 3
Oral RI for systemic threshold effects	0	0	7.366e-2
Dermal RI for systemic threshold effects	0	0	1.079e-5
Inhalation RI for systemic threshold effects	0	0	7.746e-1
Overall RI for systemic threshold effects	0	0	8.482e-1



Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong
Oral ExCR for systemic non-threshold effects	0	0	2.987e-8	2.389e-8
Dermal ExCR for systemic non-threshold effects	0	0	4.375e-12	3.500e-12
Inhalation ExCR for systemic non-threshold effects	0	0	7.746e-6	6.196e-6
Overall ExCR for systemic non-threshold effects	0	0	7.775e-6	6.220e-6

## Concentration indexes

	Concentration index	Limit value
<b>CI Environment</b>		<b>mg/m<sup>3</sup></b>
Water CI	6.252e-1	7.000e+0
Outdoor air CI		
Indoor air CI		
<b>CI Animal products</b>		<b>mg/kg fw</b>
Beef CI		
Sheep meat CI		
Liver CI		
Kidney CI		
Milk CI		

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

## Exposure overview

	1-<6 yr		6-<15 yr		15-<71 yr	
	mg/kg bw·d or mg/m <sup>3</sup>		mg/kg bw·d or mg/m <sup>3</sup>		mg/kg bw·d or mg/m <sup>3</sup>	
<b>Oral intake</b>	<b>2.878e-5</b>		<b>2.034e-5</b>		<b>3.683e-5</b>	
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%	5.693e-7	1.5%
intake via water	2.878e-5	100.0%	2.034e-5	100.0%	3.626e-5	98.5%
<b>Dermal intake</b>	<b>0</b>		<b>0</b>		<b>5.394e-9</b>	
uptake via bathing	0	%	0	%	0	0.0%
uptake via showering	0	%	0	%	0	0.0%
uptake via soil & dust	0	%	0	%	5.394e-9	100.0%
<b>Intake via inhalation</b>	<b>0</b>		<b>0</b>		<b>1.549e-3</b>	
inhalation of indoor air	0	%	0	%	1.548e-3	99.9%
inhalation of outdoor air	0	%	0	%	1.451e-6	0.1%
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 <sup>3</sup>		mg/kg bw·d or mg/m <sup>3</sup>		mg/kg bw·d or mg/m <sup>3</sup>	
<b>Oral</b>	<b>2.878e-5</b>		<b>2.034e-5</b>		<b>3.683e-5</b>	
background oral exposure	0	0.0%	0	0.0%	0	0.0%
local oral exposure	2.878e-5	100.0%	2.034e-5	100.0%	3.683e-5	100.0%
<b>Inhal</b>	<b>0</b>		<b>0</b>		<b>1.549e-3</b>	

	1-<6 yr		6-<15 yr		15-<71 yr	
	mg/kg bw·d or mg/m <sup>3</sup>	%	mg/kg bw·d or mg/m <sup>3</sup>	%	mg/kg bw·d or mg/m <sup>3</sup>	%
background inhalation exposure	0	%	0	%	0	0.0%
local inhalation exposure	0	%	0	%	1.549e-3	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 (1.2m)		Clay content	1.5E1	
Soil	Standard loam (1.2m)		Organic matter content	2.1E0	
Soil	Standard loam (1.2m)		Top of layer	1.2E0	
Soil	Standard remblai (0.0m)		Clay content	5.5E0	
Soil	Standard remblai (0.0m)		Organic matter content	7.4E0	
Soil	Standard remblai (0.0m)		Top of layer	0.0E0	
Soil	Standard loam (1.2m)	Trichloroethene	Measured soil layer concentration	0	
Soil	Standard remblai (0.0m)	Trichloroethene	Measured soil layer concentration	4.8	
Water			Depth of the groundwater table	2.9	
Indoor air			Surface area of floor, concrete slab	150	
Indoor air			Volume of indoor space	750	

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