

S-Risk report - Exercice_experts_simulation_2

Administrative information

Name: Exercice_experts_simulation_2
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 | 5.876e-1 | 2.502e-4 | | (Indoor air CI) |
| m-Xylene | 6.850e+0 | | | (Indoor air CI) |
| o-Xylene | 3.380e+0 | | | (Indoor air CI) |
| p-Xylene | 5.234e+0 | | | (Indoor air CI) |
| Naphthalene | | 5.361e-5 | | (Indoor air CI) |
| TPH aliphatic (EC >10-12) | 1.325e+0 | | | (Indoor air CI) |
| TPH aromatic (EC >10-12) | 1.241e+0 | | | (Indoor air CI) |

Conceptual site model

Scenario

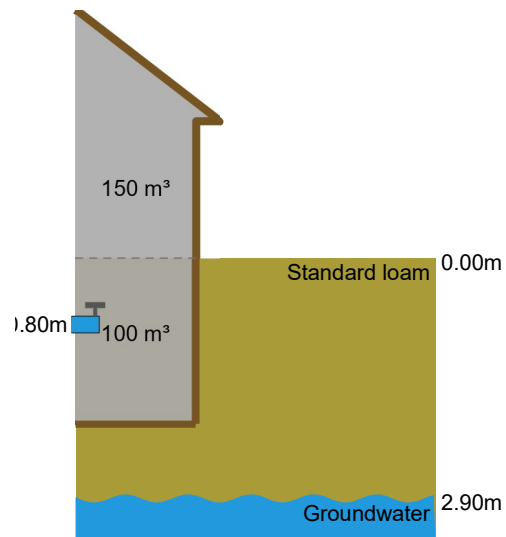
Land use: Residential with vegetable garden

Based on: Residential with vegetable garden

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 checked="" type="checkbox"/> vegetables | <input checked="" type="checkbox"/> via indoor air | <input checked="" type="checkbox"/> via water (bath & shower) |
| <input type="checkbox"/> via meat & milk | <input checked="" type="checkbox"/> during showering | |
| <input type="checkbox"/> via eggs | | |
| <input checked="" type="checkbox"/> via water | | |

Soil profile & concentrations



Site characteristics

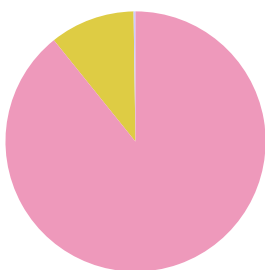
| | | |
|---------------------------|---|----------------|
| Building type | | Basement |
| Floor thickness | m | 0.1 |
| Floor quality setting | | Gaps and holes |
| Drinking water pipe depth | m | 0.8 |
| Length of the site | m | 50.0 |

| | | 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 |
| m-Xylene | | 3.100e+1 | 6.671e+3 |
| o-Xylene | | 1.200e+1 | 3.425e+3 |
| p-Xylene | | 3.100e+1 | 4.591e+3 |
| Naphthalene | | 1.300e+1 | 4.116e+2 |
| TPH aliphatic (EC >10-12) | | 2.870e+2 | 1.970e+1 |
| TPH aromatic (EC >10-12) | | 1.230e+2 | 2.307e+3 |

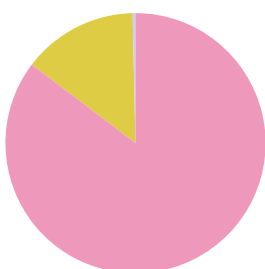
Results per chemical

Ethylbenzene

Risk indexes



| Threshold effect, systemic | Age group 1 | Age group 2 | Age group 3 |
|--|-------------|-------------|-------------|
| Oral RI for systemic threshold effects | 6.025e-2 | 4.460e-2 | 2.944e-2 |
| Dermal RI for systemic threshold effects | 1.447e-3 | 9.913e-4 | 7.543e-4 |
| Inhalation RI for systemic threshold effects | 5.259e-1 | 3.607e-1 | 2.508e-1 |
| Overall RI for systemic threshold effects | 5.876e-1 | 4.063e-1 | 2.810e-1 |



| Non-threshold, systemic | Age group 1 | Age group 2 | Age group 3 | Lifelong |
|--|-------------|-------------|-------------|----------|
| Oral ExCR for systemic non-threshold effects | 6.428e-5 | 4.759e-5 | 3.141e-5 | 3.584e-5 |
| Dermal ExCR for systemic non-threshold effects | 1.544e-6 | 1.058e-6 | 8.048e-7 | 8.901e-7 |
| Inhalation ExCR for systemic non-threshold effects | 3.944e-4 | 2.705e-4 | 1.881e-4 | 2.134e-4 |
| Overall ExCR for systemic non-threshold effects | 4.603e-4 | 3.192e-4 | 2.203e-4 | 2.502e-4 |

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 | |

| | Concentration index | Limit value |
|----------------------|---------------------|-----------------|
| Milk CI | | |
| 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 | 5.844e-3 | | 4.326e-3 | | 2.856e-3 | |
| intake via eggs | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| intake via local vegetables | 5.563e-3 | 95.2% | 4.148e-3 | 95.9% | 2.559e-3 | 89.6% |
| intake via meat & milk | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| soil & dust ingestion | 5.055e-5 | 0.9% | 1.475e-5 | 0.3% | 6.168e-6 | 0.2% |
| intake via water | 2.305e-4 | 3.9% | 1.629e-4 | 3.8% | 2.903e-4 | 10.2% |
| Dermal intake | 1.403e-4 | | 9.616e-5 | | 7.317e-5 | |
| uptake via bathing | 1.356e-4 | 96.6% | 3.007e-5 | 31.3% | 2.334e-5 | 31.9% |
| uptake via showering | 0 | 0.0% | 6.206e-5 | 64.5% | 4.816e-5 | 65.8% |
| uptake via soil & dust | 4.777e-6 | 3.4% | 4.024e-6 | 4.2% | 1.664e-6 | 2.3% |
| Intake via inhalation | 1.578e-1 | | 1.082e-1 | | 7.524e-2 | |
| inhalation of indoor air | 1.578e-1 | 100.0% | 1.077e-1 | 99.5% | 7.487e-2 | 99.5% |
| inhalation of outdoor air | 1.112e-5 | 0.0% | 9.964e-6 | 0.0% | 5.786e-6 | 0.0% |
| inhalation during showering | 0 | 0.0% | 5.065e-4 | 0.5% | 3.610e-4 | 0.5% |

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

Local vs background exposure

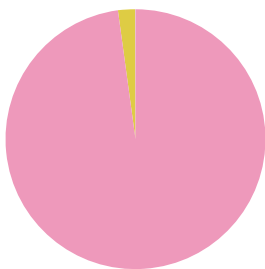
| | 1-<6 yr | | 6-<15 yr | | 15-<71 yr | |
|--------------------------|---------------------------------|--------|---------------------------------|--------|---------------------------------|--------|
| | mg/kg bw·d or mg/m ³ | | mg/kg bw·d or mg/m ³ | | mg/kg bw·d or mg/m ³ | |
| Oral | 5.844e-3 | | 4.326e-3 | | 2.856e-3 | |
| background oral exposure | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| local oral exposure | 5.844e-3 | 100.0% | 4.326e-3 | 100.0% | 2.856e-3 | 100.0% |

| | 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 | |
| Inhal | 1.578e-1 | | 1.082e-1 | | 7.524e-2 | |
| background inhalation exposure | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| local inhalation exposure | 1.578e-1 | 100.0% | 1.082e-1 | 100.0% | 7.524e-2 | 100.0% |

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

m-Xylene

Risk indexes



| Threshold effect, systemic | Age group 1 | Age group 2 | Age group 3 |
|--|-------------|-------------|-------------|
| Oral RI for systemic threshold effects | 1.405e-1 | 1.040e-1 | 6.768e-2 |
| Dermal RI for systemic threshold effects | 2.748e-3 | 1.887e-3 | 1.430e-3 |
| Inhalation RI for systemic threshold effects | 6.706e+0 | 4.597e+0 | 3.196e+0 |
| Overall RI for systemic threshold effects | 6.850e+0 | 4.703e+0 | 3.265e+0 |

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 | |
| Butter CI | |

| | Concentration index | Limit value |
|----------------------|---------------------|-----------------|
| 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 | 2.811e-2 | | 2.081e-2 | | 1.354e-2 | |
| intake via eggs | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| intake via local vegetables | 2.701e-2 | 96.1% | 2.013e-2 | 96.8% | 1.243e-2 | 91.8% |
| intake via meat & milk | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| soil & dust ingestion | 2.412e-4 | 0.9% | 7.038e-5 | 0.3% | 2.943e-5 | 0.2% |
| intake via water | 8.558e-4 | 3.0% | 6.049e-4 | 2.9% | 1.078e-3 | 8.0% |
| Dermal intake | 5.497e-4 | | 3.775e-4 | | 2.860e-4 | |
| uptake via bathing | 5.269e-4 | 95.9% | 1.169e-4 | 31.0% | 9.071e-5 | 31.7% |
| uptake via showering | 0 | 0.0% | 2.414e-4 | 63.9% | 1.873e-4 | 65.5% |
| uptake via soil & dust | 2.278e-5 | 4.1% | 1.919e-5 | 5.1% | 7.938e-6 | 2.8% |
| Intake via inhalation | 6.706e-1 | | 4.597e-1 | | 3.196e-1 | |
| inhalation of indoor air | 6.706e-1 | 100.0% | 4.578e-1 | 99.6% | 3.183e-1 | 99.6% |
| inhalation of outdoor air | 4.799e-5 | 0.0% | 4.301e-5 | 0.0% | 2.498e-5 | 0.0% |
| inhalation during showering | 0 | 0.0% | 1.876e-3 | 0.4% | 1.337e-3 | 0.4% |

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

Local vs background exposure

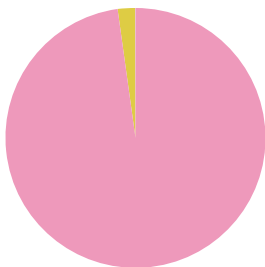
| | 1-<6 yr | | 6-<15 yr | | 15-<71 yr | |
|--------------------------------|---------------------------------|--------|---------------------------------|--------|---------------------------------|--------|
| | mg/kg bw·d or mg/m ³ | | mg/kg bw·d or mg/m ³ | | mg/kg bw·d or mg/m ³ | |
| Oral | 2.811e-2 | | 2.081e-2 | | 1.354e-2 | |
| background oral exposure | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| local oral exposure | 2.811e-2 | 100.0% | 2.081e-2 | 100.0% | 1.354e-2 | 100.0% |
| Inhal | 6.706e-1 | | 4.597e-1 | | 3.196e-1 | |
| background inhalation exposure | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |

| | 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 | |
| local inhalation exposure | 6.706e-1 | 100.0% | 4.597e-1 | 100.0% | 3.196e-1 | 100.0% |

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

o-Xylene

Risk indexes



| Threshold effect, systemic | Age group 1 | Age group 2 | Age group 3 |
|--|-------------|-------------|-------------|
| Oral RI for systemic threshold effects | 7.143e-2 | 5.299e-2 | 3.445e-2 |
| Dermal RI for systemic threshold effects | 1.188e-3 | 8.163e-4 | 6.200e-4 |
| Inhalation RI for systemic threshold effects | 3.307e+0 | 2.267e+0 | 1.576e+0 |
| Overall RI for systemic threshold effects | 3.380e+0 | 2.321e+0 | 1.611e+0 |

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 | |
| Butter CI | |
| Egg CI | |
| CI feed crops | mg/kg fw |

| | Concentration index | | Limit value | |
|----------|---------------------|--|-------------|--|
| 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 | 1.429e-2 | | 1.060e-2 | | 6.890e-3 | |
| intake via eggs | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| intake via local vegetables | 1.375e-2 | 96.3% | 1.026e-2 | 96.8% | 6.325e-3 | 91.8% |
| intake via meat & milk | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| soil & dust ingestion | 9.335e-5 | 0.7% | 2.724e-5 | 0.3% | 1.139e-5 | 0.2% |
| intake via water | 4.394e-4 | 3.1% | 3.106e-4 | 2.9% | 5.535e-4 | 8.0% |
| Dermal intake | 2.377e-4 | | 1.633e-4 | | 1.240e-4 | |
| uptake via bathing | 2.289e-4 | 96.3% | 5.077e-5 | 31.1% | 3.940e-5 | 31.8% |
| uptake via showering | 0 | 0.0% | 1.051e-4 | 64.4% | 8.153e-5 | 65.7% |
| uptake via soil & dust | 8.819e-6 | 3.7% | 7.429e-6 | 4.6% | 3.073e-6 | 2.5% |
| Intake via inhalation | 3.307e-1 | | 2.267e-1 | | 1.576e-1 | |
| inhalation of indoor air | 3.307e-1 | 100.0% | 2.257e-1 | 99.6% | 1.569e-1 | 99.6% |
| inhalation of outdoor air | 2.139e-5 | 0.0% | 1.917e-5 | 0.0% | 1.113e-5 | 0.0% |
| inhalation during showering | 0 | 0.0% | 9.558e-4 | 0.4% | 6.811e-4 | 0.4% |

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

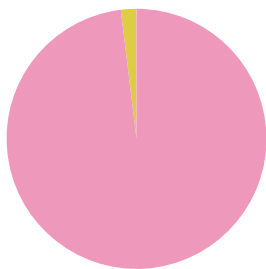
Local vs background exposure

| | 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 | 1.429e-2 | | 1.060e-2 | | 6.890e-3 | |
| background oral exposure | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| local oral exposure | 1.429e-2 | 100.0% | 1.060e-2 | 100.0% | 6.890e-3 | 100.0% |
| Inhal | 3.307e-1 | | 2.267e-1 | | 1.576e-1 | |
| background inhalation exposure | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| local inhalation exposure | 3.307e-1 | 100.0% | 2.267e-1 | 100.0% | 1.576e-1 | 100.0% |

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

p-Xylene

Risk indexes



| Threshold effect, systemic | Age group 1 | Age group 2 | Age group 3 |
|--|-------------|-------------|-------------|
| Oral RI for systemic threshold effects | 9.743e-2 | 7.199e-2 | 4.677e-2 |
| Dermal RI for systemic threshold effects | 1.873e-3 | 1.292e-3 | 9.678e-4 |
| Inhalation RI for systemic threshold effects | 5.135e+0 | 3.518e+0 | 2.446e+0 |
| Overall RI for systemic threshold effects | 5.234e+0 | 3.592e+0 | 2.494e+0 |

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 | |
| 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 |

| | 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 | 1.949e-2 | | 1.440e-2 | | 9.355e-3 | |
| intake via eggs | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| intake via local vegetables | 1.866e-2 | 95.7% | 1.391e-2 | 96.6% | 8.583e-3 | 91.8% |
| intake via meat & milk | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| soil & dust ingestion | 2.417e-4 | 1.2% | 7.051e-5 | 0.5% | 2.949e-5 | 0.3% |
| intake via water | 5.890e-4 | 3.0% | 4.163e-4 | 2.9% | 7.420e-4 | 7.9% |
| Dermal intake | 3.745e-4 | | 2.584e-4 | | 1.936e-4 | |
| uptake via bathing | 3.518e-4 | 93.9% | 7.804e-5 | 30.2% | 6.056e-5 | 31.3% |
| uptake via showering | 0 | 0.0% | 1.611e-4 | 62.4% | 1.251e-4 | 64.6% |
| uptake via soil & dust | 2.279e-5 | 6.1% | 1.920e-5 | 7.4% | 7.940e-6 | 4.1% |
| Intake via inhalation | 5.135e-1 | | 3.518e-1 | | 2.446e-1 | |
| inhalation of indoor air | 5.135e-1 | 100.0% | 3.505e-1 | 99.6% | 2.437e-1 | 99.6% |
| inhalation of outdoor air | 3.504e-5 | 0.0% | 3.141e-5 | 0.0% | 1.824e-5 | 0.0% |
| inhalation during showering | 0 | 0.0% | 1.291e-3 | 0.4% | 9.202e-4 | 0.4% |

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

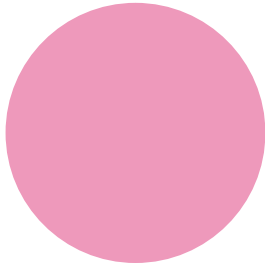
Local vs background exposure

| | 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 | 1.949e-2 | | 1.440e-2 | | 9.355e-3 | |
| background oral exposure | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| local oral exposure | 1.949e-2 | 100.0% | 1.440e-2 | 100.0% | 9.355e-3 | 100.0% |
| Inhal | 5.135e-1 | | 3.518e-1 | | 2.446e-1 | |
| background inhalation exposure | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| local inhalation exposure | 5.135e-1 | 100.0% | 3.518e-1 | 100.0% | 2.446e-1 | 100.0% |

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

Naphthalene

Risk indexes



| Non-threshold, systemic | Age group 1 | Age group 2 | Age group 3 | Lifelong |
|--|--------------------|--------------------|--------------------|-----------------|
| Oral ExCR for systemic non-threshold effects | 1.900e-11 | 1.371e-11 | 8.534e-12 | 9.946e-12 |
| Dermal ExCR for systemic non-threshold effects | 5.302e-13 | 4.324e-13 | 2.092e-13 | 2.608e-13 |
| Inhalation ExCR for systemic non-threshold effects | 9.841e-5 | 6.801e-5 | 4.729e-5 | 5.361e-5 |
| Overall ExCR for systemic non-threshold effects | 9.841e-5 | 6.801e-5 | 4.729e-5 | 5.361e-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 | |
| 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 | 1.900e-3 | | 1.371e-3 | | 8.534e-4 | |
| intake via eggs | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |

| | 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 | |
| intake via local vegetables | 1.781e-3 | 93.8% | 1.329e-3 | 97.0% | 8.202e-4 | 96.1% |
| intake via meat & milk | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| soil & dust ingestion | 1.018e-4 | 5.4% | 2.970e-5 | 2.2% | 1.242e-5 | 1.5% |
| intake via water | 1.650e-5 | 0.9% | 1.166e-5 | 0.9% | 2.079e-5 | 2.4% |
| Dermal intake | 5.302e-5 | | 4.324e-5 | | 2.092e-5 | |
| uptake via bathing | 1.160e-5 | 21.9% | 2.574e-6 | 6.0% | 1.998e-6 | 9.6% |
| uptake via showering | 0 | 0.0% | 5.775e-6 | 13.4% | 4.482e-6 | 21.4% |
| uptake via soil & dust | 4.142e-5 | 78.1% | 3.489e-5 | 80.7% | 1.444e-5 | 69.0% |
| Intake via inhalation | 2.894e-3 | | 2.000e-3 | | 1.391e-3 | |
| inhalation of indoor air | 2.894e-3 | 100.0% | 1.976e-3 | 98.8% | 1.374e-3 | 98.7% |
| inhalation of outdoor air | 2.275e-7 | 0.0% | 2.052e-7 | 0.0% | 1.207e-7 | 0.0% |
| inhalation during showering | 0 | 0.0% | 2.436e-5 | 1.2% | 1.736e-5 | 1.2% |

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

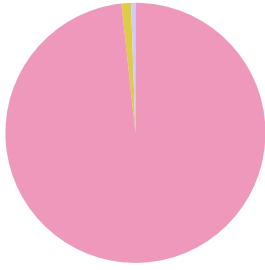
Local vs background exposure

| | 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 | 1.900e-3 | | 1.371e-3 | | 8.534e-4 | |
| background oral exposure | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| local oral exposure | 1.900e-3 | 100.0% | 1.371e-3 | 100.0% | 8.534e-4 | 100.0% |
| Inhal | 2.894e-3 | | 2.000e-3 | | 1.391e-3 | |
| background inhalation exposure | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| local inhalation exposure | 2.894e-3 | 100.0% | 2.000e-3 | 100.0% | 1.391e-3 | 100.0% |

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

TPH aliphatic (EC >10-12)

Risk indexes



| Threshold effect, systemic | Age group 1 | Age group 2 | Age group 3 |
|--|-------------|-------------|-------------|
| Oral RI for systemic threshold effects | 2.359e-2 | 7.423e-3 | 3.288e-3 |
| Dermal RI for systemic threshold effects | 7.033e-3 | 5.925e-3 | 2.451e-3 |
| Inhalation RI for systemic threshold effects | 1.294e+0 | 8.833e-1 | 6.141e-1 |
| Overall RI for systemic threshold effects | 1.325e+0 | 8.967e-1 | 6.198e-1 |

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 | |
| 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 | 2.359e-3 | | 7.423e-4 | | 3.288e-4 | |
| intake via eggs | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |

| | 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 | |
| intake via local vegetables | 1.175e-4 | 5.0% | 8.823e-5 | 11.9% | 5.526e-5 | 16.8% |
| intake via meat & milk | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| soil & dust ingestion | 2.241e-3 | 95.0% | 6.540e-4 | 88.1% | 2.735e-4 | 83.2% |
| intake via water | 9.477e-8 | 0.0% | 6.699e-8 | 0.0% | 1.194e-7 | 0.0% |
| Dermal intake | 7.033e-4 | | 5.925e-4 | | 2.451e-4 | |
| uptake via bathing | 9.958e-8 | 0.0% | 2.209e-8 | 0.0% | 1.715e-8 | 0.0% |
| uptake via showering | 0 | 0.0% | 4.760e-8 | 0.0% | 3.694e-8 | 0.0% |
| uptake via soil & dust | 7.032e-4 | 100.0% | 5.925e-4 | 100.0% | 2.451e-4 | 100.0% |
| Intake via inhalation | 1.294e+0 | | 8.833e-1 | | 6.141e-1 | |
| inhalation of indoor air | 1.294e+0 | 100.0% | 8.833e-1 | 100.0% | 6.140e-1 | 100.0% |
| inhalation of outdoor air | 7.876e-5 | 0.0% | 7.061e-5 | 0.0% | 4.103e-5 | 0.0% |
| inhalation during showering | 0 | 0.0% | 1.738e-7 | 0.0% | 1.238e-7 | 0.0% |

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

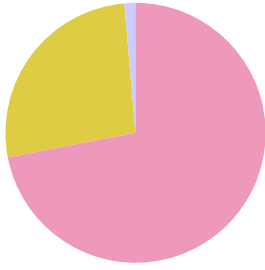
Local vs background exposure

| | 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 | 2.359e-3 | | 7.423e-4 | | 3.288e-4 | |
| background oral exposure | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| local oral exposure | 2.359e-3 | 100.0% | 7.423e-4 | 100.0% | 3.288e-4 | 100.0% |
| Inhal | 1.294e+0 | | 8.833e-1 | | 6.141e-1 | |
| background inhalation exposure | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| local inhalation exposure | 1.294e+0 | 100.0% | 8.833e-1 | 100.0% | 6.141e-1 | 100.0% |

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

TPH aromatic (EC >10-12)

Risk indexes



| Threshold effect, systemic | Age group 1 | Age group 2 | Age group 3 |
|--|-------------|-------------|-------------|
| Oral RI for systemic threshold effects | 3.293e-1 | 2.355e-1 | 1.513e-1 |
| Dermal RI for systemic threshold effects | 1.695e-2 | 1.288e-2 | 7.699e-3 |
| Inhalation RI for systemic threshold effects | 8.945e-1 | 6.144e-1 | 4.272e-1 |
| Overall RI for systemic threshold effects | 1.241e+0 | 8.628e-1 | 5.862e-1 |

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 | |
| 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 | 1.317e-2 | | 9.421e-3 | | 6.052e-3 | |
| intake via eggs | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |

| | 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 | |
| intake via local vegetables | 1.182e-2 | 89.7% | 8.865e-3 | 94.1% | 5.445e-3 | 90.0% |
| intake via meat & milk | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| soil & dust ingestion | 9.627e-4 | 7.3% | 2.809e-4 | 3.0% | 1.175e-4 | 1.9% |
| intake via water | 3.884e-4 | 2.9% | 2.745e-4 | 2.9% | 4.893e-4 | 8.1% |
| Dermal intake | 6.781e-4 | | 5.154e-4 | | 3.079e-4 | |
| uptake via bathing | 3.767e-4 | 55.5% | 8.357e-5 | 16.2% | 6.485e-5 | 21.1% |
| uptake via showering | 0 | 0.0% | 1.779e-4 | 34.5% | 1.380e-4 | 44.8% |
| uptake via soil & dust | 3.014e-4 | 44.5% | 2.540e-4 | 49.3% | 1.051e-4 | 34.1% |
| Intake via inhalation | 1.789e-1 | | 1.229e-1 | | 8.544e-2 | |
| inhalation of indoor air | 1.789e-1 | 100.0% | 1.221e-1 | 99.4% | 8.490e-2 | 99.4% |
| inhalation of outdoor air | 1.097e-5 | 0.0% | 9.843e-6 | 0.0% | 5.730e-6 | 0.0% |
| inhalation during showering | 0 | 0.0% | 7.530e-4 | 0.6% | 5.366e-4 | 0.6% |

(*) 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 | 1.317e-2 | | 9.421e-3 | | 6.052e-3 | |
| background oral exposure | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| local oral exposure | 1.317e-2 | 100.0% | 9.421e-3 | 100.0% | 6.052e-3 | 100.0% |
| Inhal | 1.789e-1 | | 1.229e-1 | | 8.544e-2 | |
| background inhalation exposure | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| local inhalation exposure | 1.789e-1 | 100.0% | 1.229e-1 | 100.0% | 8.544e-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 | |

| Topic | Soil layer | Chemical | Parameter | Value | Comment |
|-------|----------------------|---------------------------|-----------------------------------|-------|---------|
| 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 | |
| Soil | Standard loam (0.0m) | Naphthalene | Measured soil layer concentration | 13 | |
| Soil | Standard loam (0.0m) | TPH aliphatic (EC >10-12) | Measured soil layer concentration | 287 | |
| Soil | Standard loam (0.0m) | TPH aromatic (EC >10-12) | Measured soil layer concentration | 123 | |
| Soil | Standard loam (0.0m) | m-Xylene | Measured soil layer concentration | 31 | |
| Soil | Standard loam (0.0m) | o-Xylene | Measured soil layer concentration | 12 | |
| Soil | Standard loam (0.0m) | p-Xylene | Measured soil layer concentration | 31 | |
| Water | | | Depth of the groundwater table | 2.9 | |

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