ADMINISTRATIVE INFORMATION

Name : CSM_E_2

Label : YV

Application type : II Site specific risk assessment

Region Wallonia

Description : conc BTEXmtbe = RI1 en cancer iteration

RESULTS

Benzene

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	9.906E-1	6.763E-1	4.7E-1	
RI overall	9.906E-1	6.763E-1	4.7E-1	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal	0.0E0	0.0E0	0.0E0	0.0E0
ExCR_inhal	1.783E-5	1.217E-5	8.46E-6	9.607E-6
ExCR overall	1.783E-5	1.217E-5	8.46E-6	9.607E-6
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_dermal				
pRI_inhal				
pRI overall				

Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air
		3.563E-3	

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*2.97E-3*	*100.00*	*2.03E-3*	*100.00*	*1.41E-3*	*100.00*
Exposure concentration outdoor inhalation	1.38E-6	0.05	1.24E-6	0.06	3.58E-7	0.03
Exposure concentration indoor inhalation	2.97E-3	99.95	2.03E-3	99.94	1.41E-3	99.97
Exposure concentration inhalation while	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00

showering

Local versus background exposure

	1 -< 6 yr	%	6 -< 15 yr	%	15 - 71 yr	%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00
Local exposure concentration	2.97E-3	100.00	2.03E-3	100.00	1.41E-3	100.00

Toluene

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	9.343E-1	6.379E-1	4.433E-1	
RI overall	9.343E-1	6.379E-1	4.433E-1	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal				
ExCR_inhal				
ExCR overall				
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_dermal				

pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water		Ambient air		Indoor air		
Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs
Animal feed CI	Grass		Maize				

Vegetables CI	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*2.43E-1*	*100.00*	*1.66E-1*	*100.00*	*1.15E-1*	*100.00*
Exposure concentration outdoor inhalation	1.12E-4	0.05	1.01E-4	0.06	2.9E-5	0.03

Exposure concentration indoor inhalation	2.43E-1	99.95	1.66E-1	99.94	1.15E-1	99.97
Exposure concentration inhalation while showering	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00
Local exposure concentration	2.43E-1	100.00	1.66E-1	100.00	1.15E-1	100.00

Ethylbenzene

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3
	1 to 6y	6 to 15y	15 to 70y
RI_dermal	0.0E0	0.0E0	0.0E0
RI_inhal	2.407E-2	1.643E-2	1.142E-2
RI overall	2.407E-2	1.643E-2	1.142E-2
Threshold effect, local	Age group 1	Age group 2	Age group 3
	1 to 6y	6 to 15y	15 to 70y
RI_inhal			

Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal	0.0E0	0.0E0	0.0E0	0.0E0
ExCR_inhal	1.805E-5	1.232E-5	8.565E-6	9.726E-6
ExCR overall	1.805E-5	1.232E-5	8.565E-6	9.726E-6
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*7.22E-3*	*100.00*	*4.93E-3*	*100.00*	*3.43E-3*	*100.00*

Exposure concentration outdoor inhalation	3.28E-6	0.05	2.94E-6	0.06	8.49E-7	0.02
Exposure concentration indoor inhalation	7.22E-3	99.95	4.93E-3	99.94	3.43E-3	99.98
Exposure concentration inhalation while showering	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00
Local exposure concentration	7.22E-3	100.00	4.93E-3	100.00	3.43E-3	100.00

m-Xylene

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	9.464E-1	6.462E-1	4.491E-1	
RI overall	9.464E-1	6.462E-1	4.491E-1	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal				
ExCR_inhal				
ExCR overall				
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*9.46E-2*	*100.00*	*6.46E-2*	*100.00*	*4.49E-2*	*100.00*

Exposure concentration outdoor inhalation	4.28E-5	0.05	3.84E-5	0.06	1.11E-5	0.02
Exposure concentration indoor inhalation	9.46E-2	99.95	6.46E-2	99.94	4.49E-2	99.98
Exposure concentration inhalation while showering	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00
Local exposure concentration	9.46E-2	100.00	6.46E-2	100.00	4.49E-2	100.00

Naphthalene

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal				
RI_inhal				
RI overall				
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal	0.0E0	0.0E0	0.0E0	0.0E0
ExCR_inhal	1.698E-5	1.159E-5	8.058E-6	9.15E-6
ExCR overall	1.698E-5	1.159E-5	8.058E-6	9.15E-6
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*4.99E-4*	*100.00*	*3.41E-4*	*100.00*	*2.37E-4*	*100.00*

Exposure concentration outdoor inhalation	2.3E-7	0.05	2.06E-7	0.06	5.94E-8	0.03
Exposure concentration indoor inhalation	4.99E-4	99.95	3.41E-4	99.94	2.37E-4	99.97
Exposure concentration inhalation while showering	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00
Local exposure concentration	4.99E-4	100.00	3.41E-4	100.00	2.37E-4	100.00

TPH aliphatic (EC 5-6)

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	0.0E0	0.0E0	0.0E0	
RI overall	0.0E0	0.0E0	0.0E0	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal				
ExCR_inhal				
ExCR overall				
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*

Exposure concentration outdoor inhalation	0.0E0		0.0E0		0.0E0	
Exposure concentration indoor inhalation	0.0E0		0.0E0		0.0E0	
Exposure concentration inhalation while showering	0.0E0		0.0E0		0.0E0	

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0		0.0E0		0.0E0	
Local exposure concentration	0.0E0		0.0E0		0.0E0	

TPH aliphatic (EC >10-12)

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	5.0E-1	3.414E-1	2.372E-1	
RI overall	5.0E-1	3.414E-1	2.372E-1	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal				
ExCR_inhal				
ExCR overall				
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*5.0E-1*	*100.00*	*3.41E-1*	*100.00*	*2.37E-1*	*100.00*

Exposure concentration outdoor inhalation	2.36E-4	0.05	2.12E-4	0.06	6.12E-5	0.03
Exposure concentration indoor inhalation	5.0E-1	99.95	3.41E-1	99.94	2.37E-1	99.97
Exposure concentration inhalation while showering	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00

Local versus background exposure

	1 -< 6 yr	%	6 -< 15 yr	%	15 - 71 yr	%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00
Local exposure concentration	5.0E-1	100.00	3.41E-1	100.00	2.37E-1	100.00

TPH aliphatic (EC >12-16)

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	4.861E-2	3.319E-2	2.306E-2	
RI overall	4.861E-2	3.319E-2	2.306E-2	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal				
ExCR_inhal				
ExCR overall				
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*4.86E-2*	*100.00*	*3.32E-2*	*100.00*	*2.31E-2*	*100.00*

Exposure concentration outdoor inhalation	2.3E-5	0.05	2.06E-5	0.06	5.95E-6	0.03
Exposure concentration indoor inhalation	4.86E-2	99.95	3.32E-2	99.94	2.31E-2	99.97
Exposure concentration inhalation while showering	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00
Local exposure concentration	4.86E-2	100.00	3.32E-2	100.00	2.31E-2	100.00

TPH aliphatic (EC >16-21)

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	2.14E-4	1.461E-4	1.016E-4	
RI overall	2.14E-4	1.461E-4	1.016E-4	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal				
ExCR_inhal				
ExCR overall				
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*1.5E-3*	*100.00*	*1.02E-3*	*100.00*	*7.11E-4*	*100.00*

Exposure concentration outdoor inhalation	7.09E-7	0.05	6.35E-7	0.06	1.83E-7	0.03
Exposure concentration indoor inhalation	1.5E-3	99.95	1.02E-3	99.94	7.11E-4	99.97
Exposure concentration inhalation while showering	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00
Local exposure concentration	1.5E-3	100.00	1.02E-3	100.00	7.11E-4	100.00

TPH aliphatic (EC >21-35)

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	0.0E0	0.0E0	0.0E0	
RI overall	0.0E0	0.0E0	0.0E0	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal				
ExCR_inhal				
ExCR overall				
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*

Exposure concentration outdoor inhalation	0.0E0		0.0E0		0.0E0	
Exposure concentration indoor inhalation	0.0E0		0.0E0		0.0E0	
Exposure concentration inhalation while showering	0.0E0		0.0E0		0.0E0	

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0		0.0E0		0.0E0	
Local exposure concentration	0.0E0		0.0E0		0.0E0	

TPH aliphatic (EC >6-8)

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	2.709E-2	1.85E-2	1.286E-2	
RI overall	2.709E-2	1.85E-2	1.286E-2	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal				
ExCR_inhal				
ExCR overall				
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*4.99E-1*	*100.00*	*3.4E-1*	*100.00*	*2.37E-1*	*100.00*

Exposure concentration outdoor inhalation	2.36E-4	0.05	2.11E-4	0.06	6.1E-5	0.03
Exposure concentration indoor inhalation	4.98E-1	99.95	3.4E-1	99.94	2.36E-1	99.97
Exposure concentration inhalation while showering	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00
Local exposure concentration	4.99E-1	100.00	3.4E-1	100.00	2.37E-1	100.00

TPH aliphatic (EC >8-10)

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3
	1 to 6y	6 to 15y	15 to 70y
RI_dermal	0.0E0	0.0E0	0.0E0
RI_inhal	9.546E-1	6.518E-1	4.529E-1
RI overall	9.546E-1	6.518E-1	4.529E-1
Threshold effect, local	Age group 1	Age group 2	Age group 3
	1 to 6y	6 to 15y	15 to 70y
RI_inhal			

Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal				
ExCR_inhal				
ExCR overall				
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*9.55E-1*	*100.00*	*6.52E-1*	*100.00*	*4.53E-1*	*100.00*

Exposure concentration outdoor inhalation	4.52E-4	0.05	4.05E-4	0.06	1.17E-4	0.03
Exposure concentration indoor inhalation	9.54E-1	99.95	6.51E-1	99.94	4.53E-1	99.97
Exposure concentration inhalation while showering	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00
Local exposure concentration	9.55E-1	100.00	6.52E-1	100.00	4.53E-1	100.00

TPH aromatic (EC >6-7)

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	0.0E0	0.0E0	0.0E0	
RI overall	0.0E0	0.0E0	0.0E0	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal	0.0E0	0.0E0	0.0E0	0.0E0
ExCR_inhal	0.0E0	0.0E0	0.0E0	0.0E0
ExCR overall	0.0E0	0.0E0	0.0E0	0.0E0
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air
		0.0E0	

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*

Exposure concentration outdoor inhalation	0.0E0		0.0E0		0.0E0	
Exposure concentration indoor inhalation	0.0E0		0.0E0		0.0E0	
Exposure concentration inhalation while showering	0.0E0		0.0E0		0.0E0	

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0		0.0E0		0.0E0	
Local exposure concentration	0.0E0		0.0E0		0.0E0	

TPH aromatic (EC >7-8)

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	0.0E0	0.0E0	0.0E0	
RI overall	0.0E0	0.0E0	0.0E0	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal				
ExCR_inhal				
ExCR overall				
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*

Exposure concentration outdoor inhalation	0.0E0		0.0E0		0.0E0	
Exposure concentration indoor inhalation	0.0E0		0.0E0		0.0E0	
Exposure concentration inhalation while showering	0.0E0		0.0E0		0.0E0	

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0		0.0E0		0.0E0	
Local exposure concentration	0.0E0		0.0E0		0.0E0	

TPH aromatic (EC >8-10)

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	1.022E0	6.977E-1	4.848E-1	
RI overall	1.022E0	6.977E-1	4.848E-1	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal				
ExCR_inhal				
ExCR overall				
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*2.04E-1*	*100.00*	*1.4E-1*	*100.00*	*9.7E-2*	*100.00*

Exposure concentration outdoor inhalation	9.67E-5	0.05	8.67E-5	0.06	2.5E-5	0.03
Exposure concentration indoor inhalation	2.04E-1	99.95	1.39E-1	99.94	9.69E-2	99.97
Exposure concentration inhalation while showering	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00
Local exposure concentration	2.04E-1	100.00	1.4E-1	100.00	9.7E-2	100.00

TPH aromatic (EC >10-12)

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	1.66E-1	1.134E-1	7.877E-2	
RI overall	1.66E-1	1.134E-1	7.877E-2	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal				
ExCR_inhal				
ExCR overall				
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*3.32E-2*	*100.00*	*2.27E-2*	*100.00*	*1.58E-2*	*100.00*

Exposure concentration outdoor inhalation	1.57E-5	0.05	1.41E-5	0.06	4.07E-6	0.03
Exposure concentration indoor inhalation	3.32E-2	99.95	2.27E-2	99.94	1.58E-2	99.97
Exposure concentration inhalation while showering	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00
Local exposure concentration	3.32E-2	100.00	2.27E-2	100.00	1.58E-2	100.00

TPH aromatic (EC >12-16)

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	1.92E-1	1.311E-1	9.109E-2	
RI overall	1.92E-1	1.311E-1	9.109E-2	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal				
ExCR_inhal				
ExCR overall				
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*3.84E-2*	*100.00*	*2.62E-2*	*100.00*	*1.82E-2*	*100.00*

Exposure concentration outdoor inhalation	1.83E-5	0.05	1.64E-5	0.06	4.73E-6	0.03
Exposure concentration indoor inhalation	3.84E-2	99.95	2.62E-2	99.94	1.82E-2	99.97
Exposure concentration inhalation while showering	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00
Local exposure concentration	3.84E-2	100.00	2.62E-2	100.00	1.82E-2	100.00

TPH aromatic (EC >16-21)

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	1.061E-2	7.241E-3	5.032E-3	
RI overall	1.061E-2	7.241E-3	5.032E-3	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal				
ExCR_inhal				
ExCR overall				
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*1.11E-3*	*100.00*	*7.6E-4*	*100.00*	*5.28E-4*	*100.00*

Exposure concentration outdoor inhalation	5.42E-7	0.05	4.86E-7	0.06	1.4E-7	0.03
Exposure concentration indoor inhalation	1.11E-3	99.95	7.6E-4	99.94	5.28E-4	99.97
Exposure concentration inhalation while showering	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00
Local exposure concentration	1.11E-3	100.00	7.6E-4	100.00	5.28E-4	100.00

TPH aromatic (EC >21-35)

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	0.0E0	0.0E0	0.0E0	
RI overall	0.0E0	0.0E0	0.0E0	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal				
ExCR_inhal				
ExCR overall				
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*

Exposure concentration outdoor inhalation	0.0E0		0.0E0		0.0E0	
Exposure concentration indoor inhalation	0.0E0		0.0E0		0.0E0	
Exposure concentration inhalation while showering	0.0E0		0.0E0		0.0E0	

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0		0.0E0		0.0E0	
Local exposure concentration	0.0E0		0.0E0		0.0E0	

Methyl-t-butylether

Risk indexes

Threshold effect, systemic	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_dermal	0.0E0	0.0E0	0.0E0	
RI_inhal	2.2E-2	1.502E-2	1.044E-2	
RI overall	2.2E-2	1.502E-2	1.044E-2	
Threshold effect, local	Age group 1	Age group 2	Age group 3	
	1 to 6y	6 to 15y	15 to 70y	
RI_inhal				
Non-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_dermal	0.0E0	0.0E0	0.0E0	0.0E0
ExCR_inhal	1.716E-5	1.171E-5	8.141E-6	9.245E-6
ExCR overall	1.716E-5	1.171E-5	8.141E-6	9.245E-6
Non-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
ExCR_inhal				
Pseudo-threshold, systemic	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y

pRI_dermal				
pRI_inhal				
pRI overall				
Pseudo-threshold, local	Age group 1	Age group 2	Age group 3	Lifelong risk
	1 to 6y	6 to 15y	15 to 70y	1 to 70y
pRI_oral				
pRI_inhal				

Concentration indexes

Environmental CI	Drinking water	Ambient air	Indoor air

Animal product CI	Beef	Sheep	Liver	Kidney	Milk	Butter	Eggs

Animal feed CI	Grass	Maize

Vegetables CI				
	potato		cauliflower and broccoli	
	carrot		Brussels sprouts	
	scorzonera and parsnip		lettuce	
	other root vegetables (as radish)		lambs lettuce	
	bulbous vegetables (as onion)		endive	
	leek		spinach	
	tomato		chicory	
	cucumber		celery	
	other fruit vegetables (as paprika)		beans	
	cabbage		peas	

Exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Ingestion of soil and dust	0.0E0		0.0E0		0.0E0	
Intake via vegetables	0.0E0		0.0E0		0.0E0	
Intake via meat and dairy products	0.0E0		0.0E0		0.0E0	
Intake via eggs	0.0E0		0.0E0		0.0E0	
Intake via water	0.0E0		0.0E0		0.0E0	
Dermal (mg/kg.d)	*0.0E0*	*0.00*	*0.0E0*	*0.00*	*0.0E0*	*0.00*
Dermal uptake through soil and dust	0.0E0		0.0E0		0.0E0	
Dermal uptake through bathing	0.0E0		0.0E0		0.0E0	
Dermal uptake through showering	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)	*6.6E-2*	*100.00*	*4.51E-2*	*100.00*	*3.13E-2*	*100.00*

Exposure concentration outdoor inhalation	3.16E-5	0.05	2.84E-5	0.06	8.19E-6	0.03
Exposure concentration indoor inhalation	6.6E-2	99.95	4.5E-2	99.94	3.13E-2	99.97
Exposure concentration inhalation while showering	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00

Local versus background exposure

	1 -< 6 yr		6 -< 15 yr		15 - 71 yr	
		%		%		%
Oral (mg/kg.d)						
Background	0.0E0		0.0E0		0.0E0	
Local	0.0E0		0.0E0		0.0E0	
Inhalation (mg/m³)						
Background exposure concentration	0.0E0	0.00	0.0E0	0.00	0.0E0	0.00
Local exposure concentration	6.6E-2	100.00	4.51E-2	100.00	3.13E-2	100.00

CONCEPTUAL SITE MODEL

Scenario

Land use: Residential only inhal Based on: Residential without garden

Exposure pathways

Oral intake of soil and indoor settled dust	
Intake via vegetables	
Intake via meat and milk	
Intake via eggs	
Oral intake via water	
Dermal uptake from soil and indoor settled dust	
Dermal uptake from water (shower and bath)	X
Inhalation via ambient air	X
Inhalation via indoor air	X
Inhalation during showering	X

Justification test TSW

Soil characteristics

Soil

Standard clay		Justification
Soil type	Standard clay	
Top of layer (m)	0.0E0	
Organic matter (%)	4.4E0	

Clay content (%)	2.46E1	
pH_KCl	5.5E0	
Bulk density ρ_s (kg/m³)	1.111E3	
Air-filled porosity θ_a (m³/m³)	1.9E-1	
Water-filled porosity θ_w (m³/m³)	3.95E-1	
Total soil porosity θ_s (m³/m³)	5.84E-1	
Soil air permeability (m²)	2.5E-14	
CEC (meq/100g)	1.93E1	
Al (mg/kg dm)	1.025E3	
Fe (mg/kg dm)	2.0E3	
P_tot (mg/kg dm)	1.25E3	
Water content in capillary zone θ_wcz (m³/m³)	4.43E-1	
Length of capillary zone L_cz (m)	3.8E0	

Standard clay		Justification
Soil type	Standard clay	
Top of layer (m)	2.0E0	
Organic matter (%)	4.4E0	
Clay content (%)	2.46E1	
pH_KCl	5.5E0	
Bulk density ρ_s (kg/m³)	1.111E3	
Air-filled porosity θ_a (m³/m³)	1.9E-1	
Water-filled porosity θ_w (m³/m³)	3.95E-1	
Total soil porosity θ_s (m³/m³)	5.84E-1	
Soil air permeability (m²)	2.5E-14	
CEC (meq/100g)	1.93E1	
Al (mg/kg dm)	1.025E3	
Fe (mg/kg dm)	2.0E3	
P_tot (mg/kg dm)	1.25E3	
Water content in capillary zone θ_wcz (m³/m³)	4.43E-1	
Length of capillary zone L_cz (m)	3.8E0	

Concentrations

Benzene

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**3.3E-1**		**7.964E1**

Pathway-specific concentrations

Concentrations in transfer media

Toluene

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**3.75E1**		**5.815E3**

Pathway-specific concentrations

Concentrations in transfer media

Ethylbenzene

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**1.5E0**		**1.591E2**

Pathway-specific concentrations

Concentrations in transfer media

m-Xylene

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**2.2E1**		**2.385E3**

Pathway-specific concentrations

Concentrations in transfer media

Naphthalene

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	0.0E0		0.0E0
Standard clay	2.0	1.2E1		1.833E2

Pathway-specific concentrations

Concentrations in transfer media

TPH aliphatic (EC 5-6)

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	0.0E0		0.0E0
Standard clay	2.0	0.0E0		0.0E0

Pathway-specific concentrations

Concentrations in transfer media

TPH aliphatic (EC >10-12)

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	0.0E0		0.0E0
Standard clay	2.0	7.392E2		1.97E1

Pathway-specific concentrations

Concentrations in transfer media

TPH aliphatic (EC >12-16)

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**4.268E3**		**4.404E-1**

Pathway-specific concentrations

Concentrations in transfer media

TPH aliphatic (EC >16-21)

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**2.024E3**		**1.449E-3**

Pathway-specific concentrations

Concentrations in transfer media

TPH aliphatic (EC >21-35)

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**0.0E0**		**0.0E0**

Pathway-specific concentrations

Concentrations in transfer media

TPH aliphatic (EC >6-8)

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**8.8E0**		**4.702E1**

Pathway-specific concentrations

Concentrations in transfer media

TPH aliphatic (EC >8-10)

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**7.92E1**		**5.633E1**

Pathway-specific concentrations

Concentrations in transfer media

TPH aromatic (EC >6-7)

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**0.0E0**		**0.0E0**

Pathway-specific concentrations

Concentrations in transfer media

TPH aromatic (EC >7-8)

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**0.0E0**		**0.0E0**

Pathway-specific concentrations

Concentrations in transfer media

TPH aromatic (EC >8-10)

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**1.408E2**		**2.006E3**

Pathway-specific concentrations

Concentrations in transfer media

TPH aromatic (EC >10-12)

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**1.232E2**		**1.112E3**

Pathway-specific concentrations

Concentrations in transfer media

TPH aromatic (EC >12-16)

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**1.012E3**		**3.361E3**

Pathway-specific concentrations

Concentrations in transfer media

TPH aromatic (EC >16-21)

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**6.16E2**		**3.766E2**

Pathway-specific concentrations

Concentrations in transfer media

TPH aromatic (EC >21-35)

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**0.0E0**		**0.0E0**

Pathway-specific concentrations

Concentrations in transfer media

Methyl-t-butylether

Name :	Top of layer (m)	Outdoor profile (mg/kg dm)	Indoor profile (mg/kg dm)	Calculated groundwater concentration from leaching
Standard clay	0.0	**0.0E0**		**0.0E0**
Standard clay	2.0	**1.6E1**		**1.755E4**

Pathway-specific concentrations

Concentrations in transfer media

Groundwater		Justification
Depth of groundwater table (m-mv)	3.000	
Groundwater concentration entered ?	**NO**	

Leaching to groundwater

Leaching parameters		Justification
Hydraulic conductivity of the phreatic	3.65E2	
Hydraulic gradient (m/m)	1.0E-3	
Length of source area (m)	5.0E1	
Thickness of the phreatic groundwater layer (m)	3.0E1	
Percentage unpaved (%)	100.0	
Infiltration rate in the vadose zone, unpaved area (m/y)	2.65E-1	
Infiltration rate in the vadose zone, paved area		

Outdoor air calculations

Outdoor air parameters		Justification
Length of the site in dominant wind direction (m)	5.0E1	
Terrain roughness length (m)	6.0E-1	
Height (m)	1.0E1	
Wind velocity at height10.0m (m/h)	2.88E5	
PM10 concentration resulting from soil (µg/m³)	5.0E0	
Enrichment factor soil - soil-derived PM10	2.0E0	

Vapour intrusion parameters

Building parameters		Justification
Building type	Basement	
State of the floor	Gaps and holes	
Volume of indoor space (m³)	1.5E2	
Depth of basement floor below soil surface (m)	2.0E0	
Thickness of basement floor (m)	1.0E-1	
Thickness of basement walls (m)	1.5E-1	
Surface area of the basement floor (m²)	5.0E1	
Surface area of the basement walls (m²)	6.0E1	
Volume of the basement (m³)	1.0E2	
Basic air exchange rate for the indoor space	2.4E1	
Fraction of openings in the floor (m²/m²)	1.0E-5	
Number of openings per floor area (1/m²)	2.0E-1	
Air permeability of the basement walls (m²)	1.0E-13	
Air-filled porosity of the basement walls (m³/m³)	7.0E-2	
Pressure difference between indoor space and	1.0E0	
Buffer space	1.0E-1	

Indoor dust parameters

Indoor settled dust (mg/kg dm)		Justification
Ratio of PM10 concentration indoor/outdoor (-)	1.0E0	

Bathroom parameters

Bathroom parameters		Justification
Volume of the bathroom (m³)	1.5E1	
Volume of the shower stall (m³)	2.0E0	
Ventilation rate in the bathroom (1/h)	3.3E0	
Water use during showering (m³/h)	5.0E-1	

Plant

Time pattern on-site

Age	Sleep (h/d)	Awake inside (h/d)	Outside (h/d)	Total on site (h/d)	EF_week (d/wk)	EF_year (wk/yr)
1 -< 3 yr	12.0	11.5	0.5	24.0	7.0	52.0
3 -< 6 yr	11.0	9.7	1.38	22.08	7.0	52.0
6 -< 10 yr	10.0	8.7	1.57	20.27	7.0	52.0
10 -< 15 yr	9.0	10.6	1.12	20.72	7.0	52.0
15 -< 21 yr	8.0	8.5	0.3	16.8	7.0	52.0
21 -< 31 yr	8.0	9.0	0.3	17.3	7.0	52.0
31 -< 41 yr	8.0	11.5	0.4	19.9	7.0	52.0
41 -< 51 yr	8.0	11.5	1.0	20.5	7.0	52.0
51 -< 61 yr	8.0	11.5	1.0	20.5	7.0	52.0
>= 61 yr	8.0	11.5	1.0	20.5	7.0	52.0

Justification

Time patterns bathing and showering

Age	Duration shower (h)	Time spent in bathroom after shower (h)	Duration bath (h)
1 -< 3 yr	0.25	0.25	0.33
3 -< 6 yr	0.25	0.25	0.33
6 -< 10 yr	0.25	0.25	0.33
10 -< 15 yr	0.25	0.25	0.33
15 -< 21 yr	0.25	0.25	0.33
21 -< 31 yr	0.25	0.25	0.33
31 -< 41 yr	0.25	0.25	0.33
41 -< 51 yr	0.25	0.25	0.33
51 -< 61 yr	0.25	0.25	0.33
>= 61 yr	0.25	0.25	0.33

Justification

Activity-based inhalation weight factors

	1 -< 3y	3 -< 6y	6 -< 10y	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Activity-based weight	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Justification

Exposure via food

Animal product consumption

(g/d)	1 -< 3y	3 -< 6y	6 -< 10y	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Beef	10.0	10.0	18.0	30.0	37.0	32.0	36.0	37.0	38.0	35.0
Organ meat	0.0	0.07	0.23	0.46	0.39	0.15	0.28	0.28	0.28	0.28
Milk	395.0	387.0	340.0	280.0	229.0	215.0	181.0	186.0	191.0	211.0
Butter	0.4	0.46	0.97	1.6	2.6	3.1	3.4	4.7	6.0	7.5
Eggs	15.0	29.0	30.0	30.0	33.0	41.0	43.0	45.0	47.0	44.0

Justification

Vegetable consumption

(g/d)	1 -< 3y	3 -< 6y	6 -< 10y	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
potato	36.3	85.35	100.81	120.69	140.21	129.9	124.54	129.29	134.31	137.19
carrot	9.12	14.45	15.43	16.68	21.57	24.78	24.78	24.78	24.78	24.78
scorzonera and parsnip	0.24	0.38	0.48	0.6	0.79	0.46	0.46	0.46	0.46	0.46
other root vegetables (as	0.45	0.71	0.81	0.95	1.45	1.7	1.7	1.7	1.7	1.7
bulbous vegetables (as	2.23	3.53	5.59	8.25	11.68	13.85	13.85	13.85	13.85	13.85
leek	3.61	5.73	5.35	4.86	5.04	5.3	5.3	5.3	5.3	5.3
tomato	6.4	10.13	16.17	23.93	36.77	53.14	53.14	53.14	53.14	53.14
cucumber	1.61	2.56	3.7	5.18	8.59	16.98	16.98	16.98	16.98	16.98
other fruit vegetables (as	0.88	1.39	1.74	2.19	4.41	9.03	9.03	9.03	9.03	9.03
cabbage	1.74	2.76	2.4	1.93	1.5	2.5	2.5	2.5	2.5	2.5
cauliflower and broccoli	3.76	5.95	6.49	7.19	10.54	13.5	13.5	13.5	13.5	13.5
Brussels sprouts	1.74	2.76	2.4	1.93	1.5	2.5	2.5	2.5	2.5	2.5
lettuce	0.5	0.79	2.9	5.62	8.45	10.56	10.56	10.56	10.56	10.56
lambs lettuce	0.14	0.22	0.44	0.72	1.2	0.92	0.92	0.92	0.92	0.92
endive	0.14	0.22	0.44	0.72	1.2	0.92	0.92	0.92	0.92	0.92
spinach	4.08	6.46	6.38	6.28	5.29	8.54	8.54	8.54	8.54	8.54
chicory	2.07	3.28	4.72	6.58	8.89	9.33	9.33	9.33	9.33	9.33
celery	0.9	1.42	1.58	1.88	2.08	2.43	2.43	2.43	2.43	2.43
beans	3.47	5.49	6.42	7.63	9.6	11.75	11.75	11.75	11.75	11.75
peas	2.0	3.17	3.51	3.96	4.19	3.87	3.87	3.87	3.87	3.87

Justification

Local animal products fraction

Beef	0.0
Organ meat	0.0
Milk	0.0
Butter	0.0
Eggs	0.0

Justification

Local vegetable products fraction

potatoes	0.0
root and tuberous plants	0.0
bulbous plants	0.0
fruit vegetables	0.0
cabbages	0.0
leafy vegetables	0.0
leguminous vegetables	0.0

Justification

Chemicals

Name : **Benzene**

CAS : **71-43-2**

Physicochemical properties		Justification
Name :	Benzene	
Casnr	71-43-2	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	7.811E1	
S (mg/l)	1.78E3	
Ts (°C)	2.5E1	
P (Pa)	1.252E4	
Tp (°C)	2.5E1	
H (Pa m³/mol)	5.52E2	
Th (°C)	2.5E1	
Kow (-)	1.349E2	
Koc (dm³/kg)	7.943E1	
Koc QSAR class		
Koa (-)		
Dpe (m²/day)	1.4E-6	

Dpvc (m²/day)	1.4E-9	
Da (m²/day)	7.4E-1	
Dw (m²/day)	9.07E-5	
pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	3.118171517E-6	YES	
Cow liver BTF	3.118171517E-6	YES	
Cow kidney BTF	3.118171517E-6	YES	
Cow milk BTF	1.140144772E-6	YES	
Sheep meat BTF	3.118171517E-6	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	

Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	
Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	1.474E-2	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	0.0E0	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	
> 15 yr			X
Inhalation TCA (mg/m³)	3.0E-3	3.0E-3	3.0E-3
Oral TDI (mg / (kg bw d))	5.0E-4	5.0E-4	5.0E-4
Dermal TDI (mg / (kg bw d))	5.0E-4	5.0E-4	5.0E-4

Local effects NO

Non-threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	
> 15 yr			X
Inhalation UR (m³/mg)	6.0E-3	6.0E-3	6.0E-3
Oral SF ((kg bw d) / mg)	5.5E-2	5.5E-2	5.5E-2
Dermal SF ((kg bw d) / mg)	5.5E-2	5.5E-2	5.5E-2

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)	1.0E0	
Outdoor air (mg/m³)	5.0E-3	
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		

other fruit vegetables (as paprika)	
cabbage	
cauliflower and broccoli	
Brussels sprouts	
lettuce	
lambs lettuce	
endive	
spinach	
chicory	
celery	
beans	
peas	
grass	
maize	

Name : **Toluene**

CAS : **3108-88-3**

Physicochemical properties		Justification
Name :	Toluene	
Casnr	3108-88-3	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	9.213E1	
S (mg/l)	5.23E2	
Ts (°C)	2.5E1	
P (Pa)	3.802E3	
Tp (°C)	2.5E1	
H (Pa m³/mol)	6.55E2	
Th (°C)	2.5E1	
Kow (-)	4.467E2	
Koc (dm³/kg)	1.318E2	
Koc QSAR class		

Koa (-)		
Dpe (m²/day)	1.2E-6	
Dpvc (m²/day)	1.2E-9	
Da (m²/day)	6.936E-1	
Dw (m²/day)	7.66E-5	
pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	1.070286383E-5	YES	
Cow liver BTF	1.070286383E-5	YES	
Cow kidney BTF	1.070286383E-5	YES	
Cow milk BTF	3.739383437E-6	YES	
Sheep meat BTF	1.070286383E-5	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	
Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	2.711E-2	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	3.0E-2	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	

Age	Group1	Group2	Group3
> 15 yr			X
Inhalation TCA (mg/m³)	2.6E-1	2.6E-1	2.6E-1
Oral TDI (mg / (kg bw d))	8.0E-2	8.0E-2	8.0E-2
Dermal TDI (mg / (kg bw d))	8.0E-2	8.0E-2	8.0E-2

Local effects NO

Non-threshold effects

Systemic effects NO

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		
other fruit vegetables (as paprika)		
cabbage		

cauliflower and broccoli	
Brussels sprouts	
lettuce	
lambs lettuce	
endive	
spinach	
chicory	
celery	
beans	
peas	
grass	
maize	

Name : **Ethylbenzene**

CAS : **100-41-4**

Physicochemical properties		Justification
Name :	Ethylbenzene	
Casnr	100-41-4	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	1.062E2	
S (mg/l)	1.65E2	
Ts (°C)	2.5E1	
P (Pa)	1.28E3	
Tp (°C)	2.5E1	
H (Pa m³/mol)	7.88E2	
Th (°C)	2.5E1	
Kow (-)	1.413E3	
Koc (dm³/kg)	1.995E2	
Koc QSAR class		

Koa (-)		
Dpe (m²/day)	2.1E-6	
Dpvc (m²/day)	2.1E-9	
Da (m²/day)	6.168E-1	
Dw (m²/day)	7.18E-5	
pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

		Calculation methodology			
Plant	Plant type	Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	3.503482884E-5	YES	
Cow liver BTF	3.503482884E-5	YES	
Cow kidney BTF	3.503482884E-5	YES	
Cow milk BTF	1.171655674E-5	YES	
Sheep meat BTF	3.503482884E-5	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	
Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	4.834E-2	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	3.0E-2	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	

Age	Group1	Group2	Group3
> 15 yr			X
Inhalation TCA (mg/m³)	3.0E-1	3.0E-1	3.0E-1
Oral TDI (mg / (kg bw d))	9.7E-2	9.7E-2	9.7E-2
Dermal TDI (mg / (kg bw d))	9.7E-2	9.7E-2	9.7E-2

Local effects NO

Non-threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	
> 15 yr			X
Inhalation UR (m³/mg)	2.5E-3	2.5E-3	2.5E-3
Oral SF ((kg bw d) / mg)	1.1E-2	1.1E-2	1.1E-2
Dermal SF ((kg bw d) / mg)	1.1E-2	1.1E-2	1.1E-2

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		

carrot	
scorzonera and parsnip	
other root vegetables (as radish)	
bulbous vegetables (as onion)	
leek	
tomato	
cucumber	
other fruit vegetables (as paprika)	
cabbage	
cauliflower and broccoli	
Brussels sprouts	
lettuce	
lambs lettuce	
endive	
spinach	
chicory	
celery	
beans	
peas	
grass	
maize	

Name : **m-Xylene**

CAS : **108-38-3**

Physicochemical properties		Justification
Name :	m-Xylene	
Casnr	108-38-3	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	1.062E2	
S (mg/l)	1.66E2	
Ts (°C)	2.5E1	
P (Pa)	1.121E3	
Tp (°C)	2.5E1	
H (Pa m³/mol)	7.1E2	
Th (°C)	2.5E1	

Kow (-)	1.514E3	
Koc (dm³/kg)	1.95E2	
Koc QSAR class		
Koa (-)		
Dpe (m²/day)	1.6E-6	
Dpvc (m²/day)	1.6E-9	
Da (m²/day)	5.952E-1	
Dw (m²/day)	6.74E-5	
pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

		Calculation methodology			
Plant	Plant type	Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	3.761837227E-5	YES	
Cow liver BTF	3.761837227E-5	YES	
Cow kidney BTF	3.761837227E-5	YES	
Cow milk BTF	1.254758077E-5	YES	
Sheep meat BTF	3.761837227E-5	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	
Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	5.059E-2	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	3.0E-2	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	
> 15 yr			X
Inhalation TCA (mg/m³)	1.0E-1	1.0E-1	1.0E-1
Oral TDI (mg / (kg bw d))	2.0E-1	2.0E-1	2.0E-1
Dermal TDI (mg / (kg bw d))	2.0E-1	2.0E-1	2.0E-1

Local effects NO

Non-threshold effects

Systemic effects NO

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		
other fruit vegetables (as paprika)		
cabbage		
cauliflower and broccoli		
Brussels sprouts		
lettuce		
lambs lettuce		
endive		
spinach		
chicory		
celery		
beans		
peas		
grass		
maize		

Name : **Naphthalene**

CAS : **91-20-3**

Physicochemical properties		Justification
Name :	Naphthalene	
Casnr	91-20-3	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	1.28E2	
S (mg/l)	3.0E1	
Ts (°C)	2.0E1	
P (Pa)	3.2E1	
Tp (°C)	2.5E1	
H (Pa m³/mol)	4.89E1	
Th (°C)	2.5E1	
Kow (-)	2.291E3	
Koc (dm³/kg)	1.479E3	
Koc QSAR class		
Koa (-)		
Dpe (m²/day)	5.0E-7	
Dpvc (m²/day)	5.0E-10	
Da (m²/day)	5.544E-1	
Dw (m²/day)	6.65E-5	
pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	5.765009138E-5	YES	
Cow liver BTF	5.765009138E-5	YES	
Cow kidney BTF	5.765009138E-5	YES	
Cow milk BTF	1.892866565E-5	YES	
Sheep meat BTF	5.765009138E-5	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	

Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	5.021E-2	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	1.3E-1	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects NO

Local effects NO

Non-threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	
> 15 yr			X
Inhalation UR (m³/mg)	3.4E-2	3.4E-2	3.4E-2
Oral SF ((kg bw d) / mg)	1.0E-8	1.0E-8	1.0E-8
Dermal SF ((kg bw d) / mg)	1.0E-8	1.0E-8	1.0E-8

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		
other fruit vegetables (as paprika)		
cabbage		
cauliflower and broccoli		

Brussels sprouts	
lettuce	
lambs lettuce	
endive	
spinach	
chicory	
celery	
beans	
peas	
grass	
maize	

Name : **TPH aliphatic (EC 5-6)**

CAS : **xx-xx-xx**

Physicochemical properties		Justification
Name :	TPH aliphatic (EC 5-6)	
Casnr	xx-xx-xx	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	8.1E1	
S (mg/l)	3.6E1	
Ts (°C)	2.0E1	
P (Pa)	3.55E4	
Tp (°C)	2.0E1	
H (Pa m³/mol)	8.04E4	
Th (°C)	2.0E1	
Kow (-)	3.311E3	
Koc (dm³/kg)	7.943E2	
Koc QSAR class		

Koa (-)		
Dpe (m²/day)	4.0E-6	
Dpvc (m²/day)	4.0E-9	
Da (m²/day)	8.64E-1	
Dw (m²/day)	8.64E-5	
pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	8.425583754E-5	YES	
Cow liver BTF	8.425583754E-5	YES	
Cow kidney BTF	8.425583754E-5	YES	
Cow milk BTF	2.727972576E-5	YES	
Sheep meat BTF	8.425583754E-5	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	
Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	1.174E-1	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	0.0E0	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	

Age	Group1	Group2	Group3
> 15 yr			X
Inhalation TCA (mg/m³)	1.84E1	1.84E1	1.84E1
Oral TDI (mg / (kg bw d))	5.0E0	5.0E0	5.0E0
Dermal TDI (mg / (kg bw d))	5.0E0	5.0E0	5.0E0

Local effects NO

Non-threshold effects

Systemic effects NO

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		
other fruit vegetables (as paprika)		
cabbage		

cauliflower and broccoli	
Brussels sprouts	
lettuce	
lambs lettuce	
endive	
spinach	
chicory	
celery	
beans	
peas	
grass	
maize	

Name : **TPH aliphatic (EC >10-12)**

CAS : **xx-xx-xx**

Physicochemical properties		Justification
Name :	TPH aliphatic (EC >10-12)	
Casnr	xx-xx-xx	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	1.6E2	
S (mg/l)	3.4E-2	
Ts (°C)	2.0E1	
P (Pa)	6.38E1	
Tp (°C)	2.0E1	
H (Pa m³/mol)	2.92E5	
Th (°C)	2.0E1	
Kow (-)	5.754E3	
Koc (dm³/kg)	2.512E5	
Koc QSAR class		

Koa (-)		
Dpe (m²/day)	6.0E-8	
Dpvc (m²/day)	6.0E-11	
Da (m²/day)	8.64E-1	
Dw (m²/day)	8.64E-5	
pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

		Calculation methodology			
Plant	Plant type	Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	1.488675359E-4	YES	
Cow liver BTF	1.488675359E-4	YES	
Cow kidney BTF	1.488675359E-4	YES	
Cow milk BTF	4.71976092E-5	YES	
Sheep meat BTF	1.488675359E-4	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	
Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	6.104E-2	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	1.0E-1	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	

Age	Group1	Group2	Group3
> 15 yr			X
Inhalation TCA (mg/m³)	1.0E0	1.0E0	1.0E0
Oral TDI (mg / (kg bw d))	1.0E-1	1.0E-1	1.0E-1
Dermal TDI (mg / (kg bw d))	1.0E-1	1.0E-1	1.0E-1

Local effects NO

Non-threshold effects

Systemic effects NO

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		
other fruit vegetables (as paprika)		
cabbage		

cauliflower and broccoli	
Brussels sprouts	
lettuce	
lambs lettuce	
endive	
spinach	
chicory	
celery	
beans	
peas	
grass	
maize	

Name : **TPH aliphatic (EC >12-16)**

CAS : **xx-xx-xx**

Physicochemical properties		Justification
Name :	TPH aliphatic (EC >12-16)	
Casnr	xx-xx-xx	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	2.0E2	
S (mg/l)	7.6E-4	
Ts (°C)	2.0E1	
P (Pa)	4.86E0	
Tp (°C)	2.0E1	
H (Pa m³/mol)	1.27E6	
Th (°C)	2.0E1	
Kow (-)	7.079E3	
Koc (dm³/kg)	5.012E6	
Koc QSAR class		

Koa (-)		
Dpe (m²/day)	6.0E-8	
Dpvc (m²/day)	6.0E-11	
Da (m²/day)	8.64E-1	
Dw (m²/day)	8.64E-5	
pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

		Calculation methodology			
Plant	Plant type	Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	1.842892489E-4	YES	
Cow liver BTF	1.842892489E-4	YES	
Cow kidney BTF	1.842892489E-4	YES	
Cow milk BTF	5.796955947E-5	YES	
Sheep meat BTF	1.842892489E-4	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	
Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	4.178E-2	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	1.0E-1	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	

Age	Group1	Group2	Group3
> 15 yr			X
Inhalation TCA (mg/m³)	1.0E0	1.0E0	1.0E0
Oral TDI (mg / (kg bw d))	1.0E-1	1.0E-1	1.0E-1
Dermal TDI (mg / (kg bw d))	1.0E-1	1.0E-1	1.0E-1

Local effects NO

Non-threshold effects

Systemic effects NO

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		
other fruit vegetables (as paprika)		
cabbage		

cauliflower and broccoli	
Brussels sprouts	
lettuce	
lambs lettuce	
endive	
spinach	
chicory	
celery	
beans	
peas	
grass	
maize	

Name : **TPH aliphatic (EC >16-21)**

CAS : **xx-xx-xx**

Physicochemical properties		Justification
Name :	TPH aliphatic (EC >16-21)	
Casnr	xx-xx-xx	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	2.7E2	
S (mg/l)	2.5E-6	
Ts (°C)	2.0E1	
P (Pa)	1.11E-1	
Tp (°C)	2.0E1	
H (Pa m³/mol)	1.19E7	
Th (°C)	2.0E1	
Kow (-)	9.333E3	
Koc (dm³/kg)	6.31E8	
Koc QSAR class		

Koa (-)		
Dpe (m²/day)	6.0E-8	
Dpvc (m²/day)	6.0E-11	
Da (m²/day)	8.64E-1	
Dw (m²/day)	8.64E-5	
pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

		Calculation methodology			
Plant	Plant type	Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	2.449627224E-4	YES	
Cow liver BTF	2.449627224E-4	YES	
Cow kidney BTF	2.449627224E-4	YES	
Cow milk BTF	7.625002668E-5	YES	
Sheep meat BTF	2.449627224E-4	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	
Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	2.033E-2	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	1.0E-1	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	

Age	Group1	Group2	Group3
> 15 yr			X
Inhalation TCA (mg/m³)	7.0E0	7.0E0	7.0E0
Oral TDI (mg / (kg bw d))	2.0E0	2.0E0	2.0E0
Dermal TDI (mg / (kg bw d))	2.0E0	2.0E0	2.0E0

Local effects NO

Non-threshold effects

Systemic effects NO

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		
other fruit vegetables (as paprika)		
cabbage		

cauliflower and broccoli	
Brussels sprouts	
lettuce	
lambs lettuce	
endive	
spinach	
chicory	
celery	
beans	
peas	
grass	
maize	

Name : **TPH aliphatic (EC >21-35)**

CAS : **xx-xx-xx**

Physicochemical properties		Justification
Name :	TPH aliphatic (EC >21-35)	
Casnr	xx-xx-xx	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	4.064E2	
S (mg/l)	1.51E-11	
Ts (°C)	2.0E1	
P (Pa)	3.48E-5	
Tp (°C)	1.0E1	
H (Pa m³/mol)	9.365E8	
Th (°C)	1.0E1	
Kow (-)	2.513E12	
Koc (dm³/kg)	1.072E13	
Koc QSAR class		

Koa (-)		
Dpe (m²/day)	6.0E-8	
Dpvc (m²/day)	6.0E-11	
Da (m²/day)	8.64E-1	
Dw (m²/day)	8.64E-5	
pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

		Calculation methodology			
Plant	Plant type	Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	0.1	YES	
Cow liver BTF	0.1	YES	
Cow kidney BTF	0.1	YES	
Cow milk BTF	0.01584893192	YES	
Sheep meat BTF	0.1	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	
Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	1.284E3	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	1.0E-1	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	

Age	Group1	Group2	Group3
> 15 yr			X
Inhalation TCA (mg/m³)	7.0E0	7.0E0	7.0E0
Oral TDI (mg / (kg bw d))	2.0E0	2.0E0	2.0E0
Dermal TDI (mg / (kg bw d))	2.0E0	2.0E0	2.0E0

Local effects NO

Non-threshold effects

Systemic effects NO

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		
other fruit vegetables (as paprika)		
cabbage		

cauliflower and broccoli	
Brussels sprouts	
lettuce	
lambs lettuce	
endive	
spinach	
chicory	
celery	
beans	
peas	
grass	
maize	

Name : **TPH aliphatic (EC >6-8)**

CAS : **xx-xx-xx**

Physicochemical properties		Justification
Name :	TPH aliphatic (EC >6-8)	
Casnr	xx-xx-xx	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	1.0E2	
S (mg/l)	5.4E0	
Ts (°C)	2.0E1	
P (Pa)	6.38E3	
Tp (°C)	2.0E1	
H (Pa m³/mol)	1.22E5	
Th (°C)	2.0E1	
Kow (-)	3.981E3	
Koc (dm³/kg)	3.981E3	
Koc QSAR class		

Koa (-)		
Dpe (m²/day)	4.0E-6	
Dpvc (m²/day)	4.0E-9	
Da (m²/day)	8.64E-1	
Dw (m²/day)	8.64E-5	
pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

		Calculation methodology			
Plant	Plant type	Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	1.018591388E-4	YES	
Cow liver BTF	1.018591388E-4	YES	
Cow kidney BTF	1.018591388E-4	YES	
Cow milk BTF	3.274914756E-5	YES	
Sheep meat BTF	1.018591388E-4	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	
Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	1.038E-1	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	3.0E-2	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	

Age	Group1	Group2	Group3
> 15 yr			X
Inhalation TCA (mg/m³)	1.84E1	1.84E1	1.84E1
Oral TDI (mg / (kg bw d))	5.0E0	5.0E0	5.0E0
Dermal TDI (mg / (kg bw d))	5.0E0	5.0E0	5.0E0

Local effects NO

Non-threshold effects

Systemic effects NO

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		
other fruit vegetables (as paprika)		
cabbage		

cauliflower and broccoli	
Brussels sprouts	
lettuce	
lambs lettuce	
endive	
spinach	
chicory	
celery	
beans	
peas	
grass	
maize	

Name : **TPH aliphatic (EC >8-10)**

CAS : **xx-xx-xx**

Physicochemical properties		Justification
Name :	TPH aliphatic (EC >8-10)	
Casnr	xx-xx-xx	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	1.3E2	
S (mg/l)	4.3E-1	
Ts (°C)	2.0E1	
P (Pa)	6.38E2	
Tp (°C)	2.0E1	
H (Pa m³/mol)	1.95E5	
Th (°C)	2.0E1	
Kow (-)	4.898E3	
Koc (dm³/kg)	3.162E4	
Koc QSAR class		

Koa (-)		
Dpe (m²/day)	6.0E-8	
Dpvc (m²/day)	6.0E-11	
Da (m²/day)	8.64E-1	
Dw (m²/day)	8.64E-5	
pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

		Calculation methodology			
Plant	Plant type	Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	1.260956196E-4	YES	
Cow liver BTF	1.260956196E-4	YES	
Cow kidney BTF	1.260956196E-4	YES	
Cow milk BTF	4.02235132E-5	YES	
Sheep meat BTF	1.260956196E-4	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	
Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	8.08E-2	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	1.0E-1	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	

Age	Group1	Group2	Group3
> 15 yr			X
Inhalation TCA (mg/m³)	1.0E0	1.0E0	1.0E0
Oral TDI (mg / (kg bw d))	1.0E-1	1.0E-1	1.0E-1
Dermal TDI (mg / (kg bw d))	1.0E-1	1.0E-1	1.0E-1

Local effects NO

Non-threshold effects

Systemic effects NO

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		
other fruit vegetables (as paprika)		
cabbage		

cauliflower and broccoli	
Brussels sprouts	
lettuce	
lambs lettuce	
endive	
spinach	
chicory	
celery	
beans	
peas	
grass	
maize	

Name : **TPH aromatic (EC >6-7)**

CAS : **71-43-2**

Physicochemical properties		Justification
Name :	TPH aromatic (EC >6-7)	
Casnr	71-43-2	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	7.811E1	
S (mg/l)	1.78E3	
Ts (°C)	2.5E1	
P (Pa)	1.252E4	
Tp (°C)	2.5E1	
H (Pa m³/mol)	5.52E2	
Th (°C)	2.5E1	
Kow (-)	1.349E2	
Koc (dm³/kg)	7.943E1	
Koc QSAR class		

Koa (-)		
Dpe (m²/day)	1.4E-6	
Dpvc (m²/day)	1.4E-9	
Da (m²/day)	7.4E-1	
Dw (m²/day)	9.07E-5	
pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

		Calculation methodology			
Plant	Plant type	Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	3.118171517E-6	YES	
Cow liver BTF	3.118171517E-6	YES	
Cow kidney BTF	3.118171517E-6	YES	
Cow milk BTF	1.140144772E-6	YES	
Sheep meat BTF	3.118171517E-6	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	
Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	1.474E-2	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	0.0E0	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	

Age	Group1	Group2	Group3
> 15 yr			X
Inhalation TCA (mg/m³)	3.0E-3	3.0E-3	3.0E-3
Oral TDI (mg / (kg bw d))	5.0E-4	5.0E-4	5.0E-4
Dermal TDI (mg / (kg bw d))	5.0E-4	5.0E-4	5.0E-4

Local effects NO

Non-threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	
> 15 yr			X
Inhalation UR (m³/mg)	6.0E-3	6.0E-3	6.0E-3
Oral SF ((kg bw d) / mg)	5.5E-2	5.5E-2	5.5E-2
Dermal SF ((kg bw d) / mg)	5.5E-2	5.5E-2	5.5E-2

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)	1.0E0	
Outdoor air (mg/m³)	5.0E-3	
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		

carrot	
scorzonera and parsnip	
other root vegetables (as radish)	
bulbous vegetables (as onion)	
leek	
tomato	
cucumber	
other fruit vegetables (as paprika)	
cabbage	
cauliflower and broccoli	
Brussels sprouts	
lettuce	
lambs lettuce	
endive	
spinach	
chicory	
celery	
beans	
peas	
grass	
maize	

Name : **TPH aromatic (EC >7-8)**

CAS : **108-88-3**

Physicochemical properties		Justification
Name :	TPH aromatic (EC >7-8)	
Casnr	108-88-3	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	9.213E1	
S (mg/l)	5.23E2	
Ts (°C)	2.5E1	
P (Pa)	3.802E3	
Tp (°C)	2.5E1	
H (Pa m³/mol)	6.55E2	
Th (°C)	2.5E1	

Kow (-)	4.467E2	
Koc (dm³/kg)	1.318E2	
Koc QSAR class		
Koa (-)		
Dpe (m²/day)	1.2E-6	
Dpvc (m²/day)	1.2E-9	
Da (m²/day)	6.936E-1	
Dw (m²/day)	7.66E-5	
pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

		Calculation methodology			
Plant	Plant type	Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	1.070286383E-5	YES	
Cow liver BTF	1.070286383E-5	YES	
Cow kidney BTF	1.070286383E-5	YES	
Cow milk BTF	3.739383437E-6	YES	
Sheep meat BTF	1.070286383E-5	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	
Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	2.711E-2	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	3.0E-2	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	
> 15 yr			X
Inhalation TCA (mg/m³)	2.6E-1	2.6E-1	2.6E-1
Oral TDI (mg / (kg bw d))	8.0E-2	8.0E-2	8.0E-2
Dermal TDI (mg / (kg bw d))	8.0E-2	8.0E-2	8.0E-2

Local effects NO

Non-threshold effects

Systemic effects NO

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		
other fruit vegetables (as paprika)		
cabbage		
cauliflower and broccoli		
Brussels sprouts		
lettuce		
lambs lettuce		
endive		
spinach		
chicory		
celery		
beans		
peas		
grass		
maize		

Name : **TPH aromatic (EC >8-10)**

CAS : **xx-xx-xx**

Physicochemical properties		Justification
Name :	TPH aromatic (EC >8-10)	
Casnr	xx-xx-xx	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	1.2E2	
S (mg/l)	6.5E1	
Ts (°C)	2.0E1	
P (Pa)	6.38E2	
Tp (°C)	2.0E1	
H (Pa m³/mol)	1.17E3	
Th (°C)	2.0E1	
Kow (-)	3.548E3	
Koc (dm³/kg)	1.585E3	
Koc QSAR class		
Koa (-)		
Dpe (m²/day)	2.1E-6	
Dpvc (m²/day)	2.1E-9	
Da (m²/day)	8.64E-1	
Dw (m²/day)	8.64E-5	
pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	9.046904376E-5	YES	
Cow liver BTF	9.046904376E-5	YES	
Cow kidney BTF	9.046904376E-5	YES	
Cow milk BTF	2.921460374E-5	YES	
Sheep meat BTF	9.046904376E-5	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	

Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	7.43E-2	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	3.0E-2	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	
> 15 yr			X
Inhalation TCA (mg/m³)	2.0E-1	2.0E-1	2.0E-1
Oral TDI (mg / (kg bw d))	4.0E-2	4.0E-2	4.0E-2
Dermal TDI (mg / (kg bw d))	4.0E-2	4.0E-2	4.0E-2

Local effects NO

Non-threshold effects

Systemic effects NO

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		
other fruit vegetables (as paprika)		
cabbage		
cauliflower and broccoli		
Brussels sprouts		
lettuce		
lambs lettuce		
endive		
spinach		
chicory		

celery	
beans	
peas	
grass	
maize	

Name : **TPH aromatic (EC >10-12)**

CAS : **xx-xx-xx**

Physicochemical properties		Justification
Name :	TPH aromatic (EC >10-	
Casnr	xx-xx-xx	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	1.3E2	
S (mg/l)	2.5E1	
Ts (°C)	2.0E1	
P (Pa)	6.38E1	
Tp (°C)	2.0E1	
H (Pa m³/mol)	3.41E2	
Th (°C)	2.0E1	
Kow (-)	3.802E3	
Koc (dm³/kg)	2.512E3	
Koc QSAR class		
Koa (-)		
Dpe (m²/day)	2.1E-6	
Dpvc (m²/day)	2.1E-9	
Da (m²/day)	8.64E-1	
Dw (m²/day)	8.64E-5	

pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	9.714042517E-5	YES	
Cow liver BTF	9.714042517E-5	YES	
Cow kidney BTF	9.714042517E-5	YES	
Cow milk BTF	3.128671744E-5	YES	
Sheep meat BTF	9.714042517E-5	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	

Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	6.836E-2	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	1.0E-1	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	
> 15 yr			X
Inhalation TCA (mg/m³)	2.0E-1	2.0E-1	2.0E-1
Oral TDI (mg / (kg bw d))	4.0E-2	4.0E-2	4.0E-2
Dermal TDI (mg / (kg bw d))	4.0E-2	4.0E-2	4.0E-2

Local effects NO

Non-threshold effects

Systemic effects NO

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		
other fruit vegetables (as paprika)		
cabbage		
cauliflower and broccoli		
Brussels sprouts		
lettuce		
lambs lettuce		
endive		
spinach		
chicory		

celery	
beans	
peas	
grass	
maize	

Name : **TPH aromatic (EC >12-16)**

CAS : **xx-xx-xx**

Physicochemical properties		Justification
Name :	TPH aromatic (EC >12-	
Casnr	xx-xx-xx	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	1.5E2	
S (mg/l)	5.8E0	
Ts (°C)	2.0E1	
P (Pa)	4.86E0	
Tp (°C)	2.0E1	
H (Pa m³/mol)	1.29E2	
Th (°C)	2.0E1	
Kow (-)	4.074E3	
Koc (dm³/kg)	5.012E3	
Koc QSAR class		
Koa (-)		
Dpe (m²/day)	2.1E-6	
Dpvc (m²/day)	2.1E-9	
Da (m²/day)	8.64E-1	
Dw (m²/day)	8.64E-5	

pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	1.043037685E-4	YES	
Cow liver BTF	1.043037685E-4	YES	
Cow kidney BTF	1.043037685E-4	YES	
Cow milk BTF	3.350580063E-5	YES	
Sheep meat BTF	1.043037685E-4	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	

Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	5.528E-2	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	1.0E-1	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	
> 15 yr			X
Inhalation TCA (mg/m³)	2.0E-1	2.0E-1	2.0E-1
Oral TDI (mg / (kg bw d))	4.0E-2	4.0E-2	4.0E-2
Dermal TDI (mg / (kg bw d))	4.0E-2	4.0E-2	4.0E-2

Local effects NO

Non-threshold effects

Systemic effects NO

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		
other fruit vegetables (as paprika)		
cabbage		
cauliflower and broccoli		
Brussels sprouts		
lettuce		
lambs lettuce		
endive		
spinach		
chicory		

celery	
beans	
peas	
grass	
maize	

Name : **TPH aromatic (EC >16-21)**

CAS : **xx-xx-xx**

Physicochemical properties		Justification
Name :	TPH aromatic (EC >16-	
Casnr	xx-xx-xx	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	1.9E2	
S (mg/l)	6.5E-1	
Ts (°C)	2.0E1	
P (Pa)	1.11E-1	
Tp (°C)	2.0E1	
H (Pa m³/mol)	3.16E1	
Th (°C)	2.0E1	
Kow (-)	4.571E3	
Koc (dm³/kg)	1.585E4	
Koc QSAR class		
Koa (-)		
Dpe (m²/day)	2.0E-7	
Dpvc (m²/day)	2.0E-10	
Da (m²/day)	8.64E-1	
Dw (m²/day)	8.64E-5	

pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	1.174356619E-4	YES	
Cow liver BTF	1.174356619E-4	YES	
Cow kidney BTF	1.174356619E-4	YES	
Cow milk BTF	3.75595171E-5	YES	
Sheep meat BTF	1.174356619E-4	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	

Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	3.561E-2	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	1.0E-1	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	
> 15 yr			X
Inhalation TCA (mg/m³)	1.05E-1	1.05E-1	1.05E-1
Oral TDI (mg / (kg bw d))	3.0E-2	3.0E-2	3.0E-2
Dermal TDI (mg / (kg bw d))	3.0E-2	3.0E-2	3.0E-2

Local effects NO

Non-threshold effects

Systemic effects NO

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		
other fruit vegetables (as paprika)		
cabbage		
cauliflower and broccoli		
Brussels sprouts		
lettuce		
lambs lettuce		
endive		
spinach		
chicory		

celery	
beans	
peas	
grass	
maize	

Name : **TPH aromatic (EC >21-35)**

CAS : **xx-xx-xx**

Physicochemical properties		Justification
Name :	TPH aromatic (EC >21-	
Casnr	xx-xx-xx	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	2.4E2	
S (mg/l)	6.6E-3	
Ts (°C)	2.0E1	
P (Pa)	4.46E-5	
Tp (°C)	2.0E1	
H (Pa m³/mol)	1.632E0	
Th (°C)	2.0E1	
Kow (-)	5.495E3	
Koc (dm³/kg)	1.259E5	
Koc QSAR class		
Koa (-)		
Dpe (m²/day)	2.0E-7	
Dpvc (m²/day)	2.0E-10	
Da (m²/day)	8.64E-1	
Dw (m²/day)	8.64E-5	

pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	1.419711172E-4	YES	
Cow liver BTF	1.419711172E-4	YES	
Cow kidney BTF	1.419711172E-4	YES	
Cow milk BTF	4.508997557E-5	YES	
Sheep meat BTF	1.419711172E-4	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	

Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	2.111E-2	
Model used	X	
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	1.0E-1	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	
> 15 yr			X
Inhalation TCA (mg/m³)	1.05E-1	1.05E-1	1.05E-1
Oral TDI (mg / (kg bw d))	3.0E-2	3.0E-2	3.0E-2
Dermal TDI (mg / (kg bw d))	3.0E-2	3.0E-2	3.0E-2

Local effects NO

Non-threshold effects

Systemic effects NO

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		
other fruit vegetables (as paprika)		
cabbage		
cauliflower and broccoli		
Brussels sprouts		
lettuce		
lambs lettuce		
endive		
spinach		
chicory		

celery	
beans	
peas	
grass	
maize	

Name : **Methyl-t-butylether**

CAS : **1634-04-4**

Physicochemical properties		Justification
Name :	Methyl-t-butylether	
Casnr	1634-04-4	
Organic	Organic	
Dissociating	false	
Acid or base		
M (g/mol)	8.815E1	
S (mg/l)	4.2E4	
Ts (°C)	2.0E1	
P (Pa)	2.68E4	
Tp (°C)	2.0E1	
H (Pa m³/mol)	4.38E1	
Th (°C)	2.0E1	
Kow (-)	1.38E1	
Koc (dm³/kg)	6.7E0	
Koc QSAR class		
Koa (-)		
Dpe (m²/day)	1.0E-7	
Dpvc (m²/day)	1.0E-10	
Da (m²/day)	8.022E-1	
Dw (m²/day)	8.022E-5	

pKa (-)		

BCFs for inorganic substances are expressed in mg/kg dm per mg/kg dm, BCFs for organic substances are expressed in mg/kg dm per mg/m³ water

Plant	Plant type	Calculation methodology			
		Plant BCF	Plant type BCF	Plant uptake properties	BCF
potato	potatoes			X	
carrot	root and tuberous plants			X	
scorzonera and parsnip	root and tuberous plants			X	
other root vegetables (as radish)	root and tuberous plants			X	
bulbous vegetables (as onion)	bulbous plants			X	
leek	bulbous plants			X	
tomato	fruit vegetables			X	
cucumber	fruit vegetables			X	
other fruit vegetables (as paprika)	fruit vegetables			X	
cabbage	cabbages			X	
cauliflower and broccoli	cabbages			X	
Brussels sprouts	cabbages			X	
lettuce	leafy vegetables			X	
lambs lettuce	leafy vegetables			X	
endive	leafy vegetables			X	
spinach	leafy vegetables			X	
chicory	leafy vegetables			X	
celery	leafy vegetables			X	
beans	leguminous vegetables			X	
peas	leguminous vegetables			X	
grass	grasses			X	
maize	grain			X	

Justification

Animal product transfer properties

BTF (mg/kg fw per mg/d)		Model used	Justification
Cow meat BTF	2.979888404E-7	YES	
Cow liver BTF	2.979888404E-7	YES	
Cow kidney BTF	2.979888404E-7	YES	
Cow milk BTF	1.188173878E-7	YES	
Sheep meat BTF	2.979888404E-7	YES	
Chicken soil-to-egg BTF	0.0		
Chicken feed-to-egg BTF	0.0		

Background levels for animal transfer

		Justification
Pasture grass (mg/kg dw)	0.0E0	
Silage grass (mg/kg dw)	0.0E0	
Maize (mg/kg dw)	0.0E0	
Concentration (mg/kg dw)	0.0E0	
Feed mixture (mg/kg dw)	0.0E0	
Other water (mg/m³)	0.0E0	

Background values for human exposure

Age	Dietary background intake (mg/kg.d)
1 -< 3 yr	0.0E0
3 -< 6 yr	0.0E0
6 -< 10 yr	0.0E0
10 -< 15 yr	0.0E0
15 -< 21 yr	0.0E0
21 -< 31 yr	0.0E0
31 -< 41 yr	0.0E0
41 -< 51 yr	0.0E0
51 -< 61 yr	0.0E0
>= 61 yr	0.0E0

Justification

		Justification
Drinking water (mg/m³)	0.0E0	
Outdoor air (mg/m³)	0.0E0	
Indoor air (mg/m³)	0.0E0	
Potatoes (mg/kg fw)	0.0E0	
Root & Tuberous vegetables (mg/kg fw)	0.0E0	
Bulbous vegetables (mg/kg fw)	0.0E0	

Fruit vegetables (mg/kg fw)	0.0E0	
Cabbages (mg/kg fw)	0.0E0	
Leafy vegetables (mg/kg fw)	0.0E0	
Leguminous vegetables (mg/kg fw)	0.0E0	
Beef (mg/kg fw)	0.0E0	
Organ meat (mg/kg fw)	0.0E0	
Milk (mg/kg fw)	0.0E0	
Butter (mg/kg fw)	0.0E0	
Eggs (mg/kg fw)	0.0E0	

Exposure parameters

		Justification
Relative bioavailability from soil (RBA_soil) (-)	1.0E0	
Relative bioavailability from settled dust (RBA_dust) (-)	1.0E0	
Relative bioavailability from water (RBA_water) (-)	1.0E0	
K_p (cm/h)	1.09E-1	
Model used		
FA (-)	1.0E0	
Dermal absorbed fraction from soil and settled dust ABS_dermal soil/dust (-)	0.0E0	

	1 -< 3y	3 -< 6y	6 -< 10	10 -< 15y	15 -< 21y	21 -< 31y	31 -< 41y	41 -< 51y	51 -< 61y	>= 61y
Age-dependent weight factor for inhalation (-)	1.9E0	1.8E0	1.6E0	1.3E0	1.2E0	1.0E0	1.0E0	1.0E0	1.0E0	1.0E0

Toxicological criteria

Threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	
> 15 yr			X
Inhalation TCA (mg/m³)	3.0E0	3.0E0	3.0E0
Oral TDI (mg / (kg bw d))	1.0E-2	1.0E-2	1.0E-2
Dermal TDI (mg / (kg bw d))	1.0E-2	1.0E-2	1.0E-2

Local effects NO

Non-threshold effects

Systemic effects YES

Age	Group1	Group2	Group3
1 -< 3 yr	X		
3 -< 6 yr	X		
6 -< 10 yr		X	
10 -< 15 yr		X	
> 15 yr			X
Inhalation UR (m³/mg)	2.6E-4	2.6E-4	2.6E-4
Oral SF ((kg bw d) / mg)	1.0E-8	1.0E-8	1.0E-8
Dermal SF ((kg bw d) / mg)	1.0E-8	1.0E-8	1.0E-8

Local effects NO

Pseudo-threshold effects

Systemic effects NO

Local effects NO

Concentration limits

		Justification
Drinking water (mg/m³)		
Outdoor air (mg/m³)		
Indoor air (mg/m³)		
Beef (mg/kg fw)		
Sheep (mg/kg fw)		
Liver (mg/kg fw)		
Kidney (mg/kg fw)		
Milk (mg/kg fw)		
Butter (mg/kg fw)		
Eggs (mg/kg fw)		
Grass (mg/kg fw)		
Maize (mg/kg fw)		
potato		
carrot		
scorzonera and parsnip		
other root vegetables (as radish)		
bulbous vegetables (as onion)		
leek		
tomato		
cucumber		

other fruit vegetables (as paprika)	
cabbage	
cauliflower and broccoli	
Brussels sprouts	
lettuce	
lambs lettuce	
endive	
spinach	
chicory	
celery	
beans	
peas	
grass	
maize	