

ATTACHMENT N

**MODEL OUTPUT FILE FOR ASSESSMENT OF WTE EMISSIONS IMPACT ON
PCDD/F INTAKE**

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= Site =

Data from file: L30512.LOC

Name:

Code:

Description:

Scenario	Scenario 0
Characteristic	Standard Scenario
CSoilModel / VolaSoil:	CSoilModel
Landuse	none

Selected exposure routes on site level:

inhalation indoor air
inhalation outdoor air
ingestion soil
dermal contact soil
inhalation soil
ingestion drinking water
dermal contact shower
inhalation vapour shower
ingestion milk
ingestion meat
ingestion vegetables
ingestion surface water
ingestion suspended matter
dermal contact surface water
ingestion fish

Changed parameters on site level:

Organic matter content [OS]

2.48E+00 %

Justification

Measured value for site

Depth of ground water table [Dg]

3.00E+00 m

Justification

Assumed value for groundwater in Ireland

Depth of contaminant below surface level [Dp.o]

1.00E-02 m

Justification

Assume contaminant at surface

Acidity [pH]

7.52E+00 -

Justification

Measured value for site

Height of capillary transition boundary above ground water table [z]

2.00E-01 m

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Justification

De Laat et al
Surface roughness [Zo]
1.00E-01 m

Justification

Van Den Bergh 1991
Fraction fat in milk [ffmi]
4.00E-02 -

Justification

Average value from EPA 2000 Milk Dioxin Report
Fraction ground water in drinking water cattle [fgcat]
1.00E-02 -

Justification

Assume minimum
Fraction surface water in drinking water cattle [fscat]
9.90E-01 -

Justification

Assume maximum surface water consumption by cattle
Weeks summer [wscat]
4.90E+01 w.y-1

Justification

Cattle outside for maximum amount of time
Daily consumption of leafy vegetables (adult) [Qvla]
2.48E-01 kg fw.d-1

Justification

Dept of Agriculture Annual Report 2000/2001
Daily consumption of tuberous vegetables (adult) [Qvra]
4.45E-01 kg fw.d-1

Justification

dept of agriculture 2000/2001
Daily consumption of meat (adult) [Qmea]
2.50E-01 kg.d-1

Justification

Dept of Ag 2000/2001
Daily consumption of milk (adult) [Qmia]
4.25E-01 l.d-1

Justification

Dept of Ag 2000/2001
Body weight (adult) [Wa]
6.00E+01 kg

Justification

Body weight from US EPA
Daily consumption of leafy vegetables (child) [Qvlc]
1.24E-01 kg fw.d-1

Justification

assume 50% of adult
Daily consumption of tuberous vegetables (child) [Qvrc]
2.23E-01 kg fw.d-1

Justification

Assume 50% of adult
Daily consumption of meat (child) [Qmec]
1.30E-01 kg.d-1

Justification

assume 50% of adult

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Subsite: Subsite 0

Selected exposure routes on subsite level:

- inhalation indoor air
- inhalation outdoor air
- ingestion soil
- dermal contact soil
- inhalation soil
- ingestion drinking water
- dermal contact shower
- inhalation vapour shower
- ingestion milk
- ingestion meat
- ingestion vegetables
- ingestion surface water
- ingestion suspended matter
- dermal contact surface water
- ingestion fish

Changed parameters on subsite level:

none

Time division adult :

days off		winter	h/d	d/w	w/y	summer	h/d
d/w	w/y						
inside dermal			0.0	0.0	0.0		0.0
0.0	0.0						
outside inhalant			0.0	0.0	0.0		0.0
0.0	0.0						
outside dermal			0.0	0.0	0.0		0.0
0.0	0.0						
working days		winter	h/d	d/w	w/y	summer	h/d
d/w	w/y						
inside dermal			0.0	0.0	0.0		0.0
0.0	0.0						
outside inhalant			16.0	7.0	25.0		16.0
7.0	25.0						
outside dermal			16.0	7.0	25.0		16.0
7.0	25.0						
time inside		winter+					
sleeping		summer	h/d	d/w	w/y		

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8.0 7.0 50.0

Justification

Assume farmer works 16 hours per day 7 days per week

Time division child:

days off w/y	winter	h/d	d/w	w/y	summer	h/d	d/w
inside dermal 2.0 25.0		12.0	2.0	25.0		12.0	
outside inhalant 0.0 0.0		0.0	0.0	0.0		0.0	
outside dermal 0.0 0.0		0.0	0.0	0.0		0.0	
working days d/w w/ y	winter	h/d	d/w	w/y	summer	h/d	d/w
inside dermal 5.0 25.0		12.0	5.0	25.0		4.0	
outside inhalant 5.0 25.0		0.0	0.0	0.0		8.0	
outside dermal 5.0 25.0		0.0	0.0	0.0		8.0	
time inside sleeping	winter summer	h/d	d/w	w/y			
		12.0	7.0	50.0			

Measurements

Code of measurement: Measurement 1
Substance: dioxine 2378 TeCDD

Site

Concentration in soil 1.00E-08 mg.kg-1

Built on area:

Code of measurement: Measurement 2
Substance: dioxine 1,2,3,7,8-PeCDD

Site

Concentration in soil 8.88E-08 mg.kg-1

Built on area:

Open surface:

Cultivated area:

Sediment:

Concentration in sediment 0.00E+00 mg.kg-1

Contactmedia:

Concentration in outdoor air 6.41E-09 µg.m-3
Concentration in indoor air 6.41E-09 µg.m-3

Soil parameters:

Current

Default

Depth of contaminant below surface level 1.00E-02
1.25
Organic matter content 2.48E+00
10
Bulk density 1.50E+00
1.5
Fraction water in soil 2.00E-01
0.2
Fraction air in soil 2.00E-01
0.2
Acidity 7.52E+00
6
Temperature of soil 2.83E+02
283
Bulk density sediment 1.30E+00
1.3
Organic matter content sediment 1.00E+01
10
Fraction water in sediment 4.00E-01
0.4

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Bulk density suspended matter	1.30E+00
1.3	
Organic matter content suspended matter	2.00E+01
20	
Fraction water in suspended matter	4.00E-01
0.4	

Measurements
Code of measurement: Measurement 3
Substance: dioxine 1,2,3,6,7,8

Site

Concentration in soil 3.20E-07 mg.kg-1

Built on area:

Open surface:

Cultivated area:

Sediment:

Concentration in sediment 0.00E+00 mg.kg-1

Contactmedia:

Concentration in outdoor air 1.44E-09 µg.m-3
Concentration in indoor air 1.44E-09 µg.m-3

Soil parameters:

Current

Default

Depth of contaminant below surface level 1.00E-02
1.25
Organic matter content 2.48E+00
10
Bulk density 1.50E+00
1.5
Fraction water in soil 2.00E-01
0.2
Fraction air in soil 2.00E-01
0.2

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Acidity	7.52E+00
6	
Temperature of soil	2.83E+02
283	
Bulk density sediment	1.30E+00
1.3	
Organic matter content sediment	1.00E+01
10	
Fraction water in sediment	4.00E-01
0.4	
Bulk density suspended matter	1.30E+00
1.3	
Organic matter content suspended matter	2.00E+01
20	
Fraction water in suspended matter	4.00E-01
0.4	

Measurements

Code of measurement: Measurement 4
 Substance: dioxine 1,2,3,4,7,8

Site

 Concentration in soil 1.96E-07 mg.kg-1

Built on area:

Open surface:

Cultivated area:

Sediment:

 Concentration in sediment 0.00E+00 mg.kg-1

Contactmedia:

 Concentration in outdoor air 1.80E-09 µg.m-3
 Concentration in indoor air 1.80E-09 µg.m-3

Soil parameters:

Default Current

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Contactmedia:

Concentration in outdoor air 1.94E-09 µg.m-3
Concentration in indoor air 1.94E-09 µg.m-3

Soil parameters:

Current

Default

Depth of contaminant below surface level 1.00E-02
1.25
Organic matter content 2.48E+00
10
Bulk density 1.50E+00
1.5
Fraction water in soil 2.00E-01
0.2
Fraction air in soil 2.00E-01
0.2
Acidity 7.52E+00
6
Temperature of soil 2.83E+02
283
Bulk density sediment 1.30E+00
1.3
Organic matter content sediment 1.00E+01
10
Fraction water in sediment 4.00E-01
0.4
Bulk density suspended matter 1.30E+00
1.3
Organic matter content suspended matter 2.00E+01
20
Fraction water in suspended matter 4.00E-01
0.4

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Measurements

Code of measurement: Measurement 6
Substance: dioxine 1,2,3,4,6,7,8

Site

Concentration in soil 3.10E-06 mg.kg-1

Built on area:

Open surface:

Cultivated area:

Sediment:

Concentration in sediment 0.00E+00 mg.kg-1

Contactmedia:

Concentration in outdoor air 1.17E-09 µg.m-3
Concentration in indoor air 1.17E-09 µg.m-3

Soil parameters:

Current

Default

Depth of contaminant below surface level 1.00E-02
1.25
Organic matter content 2.48E+00
10
Bulk density 1.50E+00
1.5
Fraction water in soil 2.00E-01
0.2
Fraction air in soil 2.00E-01
0.2
Acidity 7.52E+00
6
Temperature of soil 2.83E+02
283
Bulk density sediment 1.30E+00
1.3
Organic matter content sediment 1.00E+01
10
Fraction water in sediment 4.00E-01
0.4
Bulk density suspended matter 1.30E+00
1.3
Organic matter content suspended matter 2.00E+01
20
Fraction water in suspended matter 4.00E-01
0.4

Measurements

Code of measurement: Measurement 7
Substance: dioxine OCDD

Site

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Measurements

Code of measurement: Measurement 8
Substance: 2,3,7,8 TCDF

Site

Concentration in soil 4.41E-08 mg.kg-1

Built on area:

Open surface:

Cultivated area:

Sediment:

Concentration in sediment 0.00E+00 mg.kg-1

Contactmedia:

Concentration in outdoor air 3.21E-09 µg.m-3
Concentration in indoor air 3.21E-09 µg.m-3

Soil parameters:

	Current
Default	

Depth of contaminant below surface level 1.25	1.00E-02
Organic matter content 10	2.48E+00
Bulk density 1.5	1.50E+00
Fraction water in soil 0.2	2.00E-01
Fraction air in soil 0.2	2.00E-01
Acidity 6	7.52E+00
Temperature of soil 283	2.83E+02
Bulk density sediment 1.3	1.30E+00

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Organic matter content sediment	1.00E+01
10	
Fraction water in sediment	4.00E-01
0.4	
Bulk density suspended matter	1.30E+00
1.3	
Organic matter content suspended matter	2.00E+01
20	
Fraction water in suspended matter	4.00E-01
0.4	

Measurements

Code of measurement: Measurement 9
 Substance: 1,2,3,7,8 PeCDF

Site

Concentration in soil 3.82E-05 mg.kg-1

Built on area:

Open surface:

Cultivated area:

Sediment:

Concentration in sediment 0.00E+00 mg.kg-1

Contactmedia:

Concentration in outdoor air 5.92E-10 µg.m-3
 Concentration in indoor air 5.92E-10 µg.m-3

Soil parameters:

Current

Default

Depth of contaminant below surface level	1.00E-02
1.25	
Organic matter content	2.48E+00
10	
Bulk density	1.50E+00
1.5	

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Fraction water in soil	2.00E-01
0.2	
Fraction air in soil	2.00E-01
0.2	
Acidity	7.52E+00
6	
Temperature of soil	2.83E+02
283	
Bulk density sediment	1.30E+00
1.3	
Organic matter content sediment	1.00E+01
10	
Fraction water in sediment	4.00E-01
0.4	
Bulk density suspended matter	1.30E+00
1.3	
Organic matter content suspended matter	2.00E+01
20	
Fraction water in suspended matter	4.00E-01
0.4	

Measurements

Code of measurement: Measurement 10
 Substance: 1, 2, 3, 4, 7, 8 HxCDF

Site

 Concentration in soil 5.64E-07 mg.kg-1

Built on area:

Open surface:

Cultivated area:

Sediment:

 Concentration in sediment 0.00E+00 mg.kg-1

Contactmedia:

 Concentration in outdoor air 3.34E-09 µg.m-3
 Concentration in indoor air 3.34E-09 µg.m-3

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Soil parameters:
Default

Current

Depth of contaminant below surface level	1.00E-02
1.25	
Organic matter content	2.48E+00
10	
Bulk density	1.50E+00
1.5	
Fraction water in soil	2.00E-01
0.2	
Fraction air in soil	2.00E-01
0.2	
Acidity	7.52E+00
6	
Temperature of soil	2.83E+02
283	
Bulk density sediment	1.30E+00
1.3	
Organic matter content sediment	1.00E+01
10	
Fraction water in sediment	4.00E-01
0.4	
Bulk density suspended matter	1.30E+00
1.3	
Organic matter content suspended matter	2.00E+01
20	
Fraction water in suspended matter	4.00E-01
0.4	

Measurements

Code of measurement: Measurement 11
Substance: 2,3,4,7,8 PeCDF

Site

Concentration in soil 4.77E-07 mg.kg-1

Built on area:

Open surface:

Cultivated area:

Sediment:

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Open surface:

Cultivated area:

Sediment:

Concentration in sediment 0.00E+00 mg.kg-1

Contactmedia:

Concentration in outdoor air 2.17E-09 µg.m-3
Concentration in indoor air 2.17E-09 µg.m-3

Soil parameters:

Current

Default

Depth of contaminant below surface level 1.00E-02
1.25
Organic matter content 2.48E+00
10
Bulk density 1.50E+00
1.5
Fraction water in soil 2.00E-01
0.2
Fraction air in soil 2.00E-01
0.2
Acidity 7.52E+00
6
Temperature of soil 2.83E+02
283
Bulk density sediment 1.30E+00
1.3
Organic matter content sediment 1.00E+01
10
Fraction water in sediment 4.00E-01
0.4
Bulk density suspended matter 1.30E+00
1.3
Organic matter content suspended matter 2.00E+01
20
Fraction water in suspended matter 4.00E-01
0.4

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Measurements

Code of measurement: Measurement 13
Substance: 1,2,3,7,8,9 HxCDF

Site

Concentration in soil 1.17E-07 mg.kg-1

Built on area:

Open surface:

Cultivated area:

Sediment:

Concentration in sediment 0.00E+00 mg.kg-1

Contact media:

Concentration in outdoor air 2.89E-09 µg.m-3
Concentration in indoor air 2.89E-09 µg.m-3

Soil parameters:

Default

Current

Depth of contaminant below surface level 1.00E-02
1.25
Organic matter content 2.48E+00
10
Bulk density 1.50E+00
1.5
Fraction water in soil 2.00E-01
0.2
Fraction air in soil 2.00E-01
0.2
Acidity 7.52E+00
6
Temperature of soil 2.83E+02
283
Bulk density sediment 1.30E+00
1.3
Organic matter content sediment 1.00E+01
10
Fraction water in sediment 4.00E-01
0.4
Bulk density suspended matter 1.30E+00
1.3

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Organic matter content suspended matter	2.00E+01
20	
Fraction water in suspended matter	4.00E-01
0.4	

Measurements

Code of measurement: Measurement 14
 Substance: 2,3,4,6,7,8 Hp CDF

Site

 Concentration in soil 4.00E-07 mg.kg-1

Built on area:

Open surface:

Cultivated area:

Sediment:

 Concentration in sediment 0.00E+00 mg.kg-1

Contactmedia:

 Concentration in outdoor air 2.88E-09 µg.m-3
 Concentration in indoor air 2.88E-09 µg.m-3

Soil parameters:

Default	Current
-----	-----
Depth of contaminant below surface level	1.00E-02
1.25	
Organic matter content	2.48E+00
10	
Bulk density	1.50E+00
1.5	
Fraction water in soil	2.00E-01
0.2	
Fraction air in soil	2.00E-01
0.2	
Acidity	7.52E+00
6	

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Temperature of soil	2.83E+02
283	
Bulk density sediment	1.30E+00
1.3	
Organic matter content sediment	1.00E+01
10	
Fraction water in sediment	4.00E-01
0.4	
Bulk density suspended matter	1.30E+00
1.3	
Organic matter content suspended matter	2.00E+01
20	
Fraction water in suspended matter	4.00E-01
0.4	

Measurements

Code of measurement: Measurement 15
 Substance: 1, 2, 3, 4, 6, 7, 8 HpCDF

Site

 Concentration in soil 2.40E-06 mg.kg-1

Built on area:

Open surface:

Cultivated area:

Sediment:

 Concentration in sediment 0.00E+00 mg.kg-1

Contactmedia:

 Concentration in outdoor air 8.70E-10 µg.m-3
 Concentration in indoor air 8.70E-10 µg.m-3

Soil parameters:

Default

Current

 Depth of contaminant below surface level 1.00E-02
 1.25

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Organic matter content	2.48E+00
10	
Bulk density	1.50E+00
1.5	
Fraction water in soil	2.00E-01
0.2	
Fraction air in soil	2.00E-01
0.2	
Acidity	7.52E+00
6	
Temperature of soil	2.83E+02
283	
Bulk density sediment	1.30E+00
1.3	
Organic matter content sediment	1.00E+01
10	
Fraction water in sediment	4.00E-01
0.4	
Bulk density suspended matter	1.30E+00
1.3	
Organic matter content suspended matter	2.00E+01
20	
Fraction water in suspended matter	4.00E-01
0.4	

Measurements

Code of measurement: Measurement 16
 Substance: 1,2,3,4,7,8,9 HpCDF

Site

 Concentration in soil 2.60E-07 mg.kg-1

Built on area:

Open surface:

Cultivated area:

Sediment:

 Concentration in sediment 0.00E+00 mg.kg-1

Contactmedia:

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Cultivated area:

Sediment:

Concentration in sediment 0.00E+00 mg.kg-1

Contactmedia:

Concentration in outdoor air 6.99E-11 µg.m-3
Concentration in indoor air 6.99E-11 µg.m-3

Soil parameters:

Current

Default

Depth of contaminant below surface level	1.00E-02
1.25	
Organic matter content	2.48E+00
10	
Bulk density	1.50E+00
1.5	
Fraction water in soil	2.00E-01
0.2	
Fraction air in soil	2.00E-01
0.2	
Acidity	7.52E+00
6	
Temperature of soil	2.83E+02
283	
Bulk density sediment	1.30E+00
1.3	
Organic matter content sediment	1.00E+01
10	
Fraction water in sediment	4.00E-01
0.4	
Bulk density suspended matter	1.30E+00
1.3	
Organic matter content suspended matter	2.00E+01
20	
Fraction water in suspended matter	4.00E-01
0.4	

==== Result ====

Scenario : Scenario 0

Subsite : Subsite 0

= Uptake Table =

Measurement : Measurement 1

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Substance : dioxine 2378 TeCDD

Exposure per route (mg/(kg.d))

Exposure route Lifelong	Child	Adult
inhalation indoor air 3.30E-13	1.06E-12	2.61E-13
inhalation outdoor air 4.90E-13	1.44E-13	5.22E-13
ingestion soil 1.62E-14	1.00E-13	8.35E-15
dermal contact soil 1.20E-14	4.29E-15	1.28E-14
inhalation soil 9.87E-17	1.58E-16	9.31E-17
ingestion drinking water 4.47E-18	8.24E-18	4.12E-18
dermal contact shower 7.70E-18	1.48E-17	7.03E-18
inhalation vapour shower 5.62E-20	8.28E-20	5.37E-20
ingestion milk 1.07E-12	3.63E-12	8.14E-13
ingestion meat 3.30E-12	6.28E-12	3.02E-12
ingestion vegetables 1.14E-12	2.10E-12	1.05E-12
ingestion surface water 0.00E+00	0.00E+00	0.00E+00
ingestion suspended matter 0.00E+00	0.00E+00	0.00E+00
dermal contact surface water 0.00E+00	0.00E+00	0.00E+00
ingestion fish 0.00E+00	0.00E+00	0.00E+00
Total exposure 6.35E-12	1.35E-11	5.68E-12

= Uptake Table =

Measurement : Measurement 2
Substance : dioxine 1,2,3,7,8-PeCDD

Exposure per route (mg/(kg.d))

Exposure route Lifelong	Child	Adult
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inhalation indoor air 8.96E-13	2.89E-12	7.09E-13
inhalation outdoor air 1.33E-12	3.91E-13	1.42E-12
ingestion soil 1.44E-13	8.88E-13	7.40E-14
dermal contact soil 1.07E-13	3.80E-14	1.13E-13
inhalation soil 8.75E-16	1.40E-15	8.25E-16
ingestion drinking water 0.00E+00	0.00E+00	0.00E+00
dermal contact shower 0.00E+00	0.00E+00	0.00E+00
inhalation vapour shower 0.00E+00	0.00E+00	0.00E+00
ingestion milk 9.23E-12	3.29E-11	7.00E-12
ingestion meat 2.92E-11	5.57E-11	2.68E-11
ingestion vegetables 3.12E-11	5.77E-11	2.88E-11
ingestion surface water 0.00E+00	0.00E+00	0.00E+00
ingestion suspended matter 0.00E+00	0.00E+00	0.00E+00
dermal contact surface water 0.00E+00	0.00E+00	0.00E+00
ingestion fish 0.00E+00	0.00E+00	0.00E+00
Total exposure 7.22E-11	1.50E-10	6.49E-11

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= Uptake Table =

Measurement : Measurement 3
 Substance : dioxine 1,2,3,6,7,8

Exposure per route (mg/(kg.d))

Exposure route Lifelong	Child	Adult
inhalation indoor air 2.01E-13	6.50E-13	1.59E-13
inhalation outdoor air 2.99E-13	8.78E-14	3.19E-13

ingestion soil 5.18E-13	3.20E-12	2.67E-13
dermal contact soil 3.85E-13	1.37E-13	4.08E-13
inhalation soil 3.15E-15	5.06E-15	2.97E-15
ingestion drinking water 0.00E+00	0.00E+00	0.00E+00
dermal contact shower 0.00E+00	0.00E+00	0.00E+00
inhalation vapour shower 0.00E+00	0.00E+00	0.00E+00
ingestion milk 3.28E-11	1.17E-10	2.49E-11
ingestion meat 1.04E-10	1.98E-10	9.52E-11
ingestion vegetables 4.36E-11	8.05E-11	4.01E-11
ingestion surface water 0.00E+00	0.00E+00	0.00E+00
ingestion suspended matter 0.00E+00	0.00E+00	0.00E+00
dermal contact surface water 0.00E+00	0.00E+00	0.00E+00
ingestion fish 0.00E+00	0.00E+00	0.00E+00

Total exposure 1.82E-10	4.00E-10	1.61E-10

= Uptake Table =

Measurement : Measurement 4
 Substance : dioxine 1,2,3,4,7,8

Exposure per route (mg/(kg.d))

Exposure route Lifelong	Child	Adult
inhalation indoor air 2.51E-13	8.11E-13	1.99E-13
inhalation outdoor air 3.73E-13	1.10E-13	3.98E-13
ingestion soil 3.17E-13	1.96E-12	1.63E-13
dermal contact soil 2.36E-13	8.39E-14	2.50E-13
inhalation soil 1.93E-15	3.10E-15	1.82E-15

ingestion drinking water 0.00E+00	0.00E+00	0.00E+00
dermal contact shower 0.00E+00	0.00E+00	0.00E+00
inhalation vapour shower 0.00E+00	0.00E+00	0.00E+00
ingestion milk 2.01E-11	7.18E-11	1.53E-11
ingestion meat 6.38E-11	1.21E-10	5.84E-11
ingestion vegetables 2.67E-11	4.93E-11	2.46E-11
ingestion surface water 0.00E+00	0.00E+00	0.00E+00
ingestion suspended matter 0.00E+00	0.00E+00	0.00E+00
dermal contact surface water 0.00E+00	0.00E+00	0.00E+00
ingestion fish 0.00E+00	0.00E+00	0.00E+00

Total exposure 2.45E-10 9.92E-11
1.12E-10

= Uptake Table =

Measurement : Measurement \$
Substance : dioxine 1,2,3,7,8,9

Exposure per route (mg/(kg.d))

Exposure route Lifelong	Child	Adult
inhalation indoor air 2.71E-13	8.75E-13	2.15E-13
inhalation outdoor air 4.03E-13	1.18E-13	4.30E-13
ingestion soil 6.20E-13	3.83E-12	3.19E-13
dermal contact soil 4.60E-13	1.64E-13	4.88E-13
inhalation soil 3.77E-15	6.05E-15	3.56E-15
ingestion drinking water 0.00E+00	0.00E+00	0.00E+00
dermal contact shower 0.00E+00	0.00E+00	0.00E+00
inhalation vapour shower 0.00E+00	0.00E+00	0.00E+00

ingestion milk	1.40E-10	2.98E-11
3.93E-11		
ingestion meat	2.37E-10	1.14E-10
1.24E-10		
ingestion vegetables	9.63E-11	4.80E-11
5.22E-11		
ingestion surface water	0.00E+00	0.00E+00
0.00E+00		
ingestion suspended matter	0.00E+00	0.00E+00
0.00E+00		
dermal contact surface water	0.00E+00	0.00E+00
0.00E+00		
ingestion fish	0.00E+00	0.00E+00
0.00E+00		

Total exposure	4.78E-10	1.93E-10
2.18E-10		

= Uptake Table =

Measurement : Measurement 6
 Substance : dioxine 1,2,3,4,6,7,8

Exposure per route (mg/(kg.d))

Exposure route	Child	Adult
Lifelong		

inhalation indoor air	5.28E-13	1.29E-13
1.64E-13		
inhalation outdoor air	7.13E-14	2.59E-13
2.43E-13		
ingestion soil	3.10E-11	2.58E-12
5.02E-12		
dermal contact soil	1.33E-12	3.95E-12
3.73E-12		
inhalation soil	4.90E-14	2.88E-14
3.06E-14		
ingestion drinking water	0.00E+00	0.00E+00
0.00E+00		
dermal contact shower	0.00E+00	0.00E+00
0.00E+00		
inhalation vapour shower	0.00E+00	0.00E+00
0.00E+00		
ingestion milk	1.13E-09	2.41E-10
3.18E-10		
ingestion meat	1.92E-09	9.22E-10
1.01E-09		
ingestion vegetables	2.22E-10	1.11E-10
1.20E-10		

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ingestion surface water	0.00E+00	0.00E+00
0.00E+00		
ingestion suspended matter	0.00E+00	0.00E+00
0.00E+00		
dermal contact surface water	0.00E+00	0.00E+00
0.00E+00		
ingestion fish	0.00E+00	0.00E+00
0.00E+00		

Total exposure	3.31E-09	1.28E-09
1.45E-09		

= Uptake Table =

Measurement : Measurement 7
 Substance : dioxine OCDD

Exposure per route (mg/(kg.d))

Exposure route Lifelong	Child	Adult
inhalation indoor air	7.40E-14	1.81E-14
2.29E-14		
inhalation outdoor air	1.00E-14	3.63E-14
3.40E-14		
ingestion soil	1.31E-09	1.09E-10
2.12E-10		
dermal contact soil	5.60E-11	1.67E-10
1.57E-10		
inhalation soil	2.07E-12	1.22E-12
1.29E-12		
ingestion drinking water	4.28E-15	2.14E-15
2.32E-15		
dermal contact shower	8.58E-16	4.07E-16
4.45E-16		
inhalation vapour shower	1.73E-17	1.12E-17
1.17E-17		
ingestion milk	4.79E-08	1.02E-08
1.34E-08		
ingestion meat	8.09E-08	3.89E-08
4.25E-08		
ingestion vegetables	1.30E-08	6.51E-09
7.07E-09		
ingestion surface water	0.00E+00	0.00E+00
0.00E+00		
ingestion suspended matter	0.00E+00	0.00E+00
0.00E+00		
dermal contact surface water	0.00E+00	0.00E+00
0.00E+00		

ingestion fish 0.00E+00	0.00E+00	0.00E+00
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Total exposure 6.33E-08	1.43E-07	5.58E-08
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= Uptake Table =

Measurement : Measurement 8
 Substance : 2,3,7,8 TCDF

Exposure per route (mg/(kg.d))

Exposure route Lifelong	Child	Adult
inhalation indoor air 4.49E-13	1.45E-12	3.55E-13
inhalation outdoor air 6.66E-13	1.96E-13	7.10E-13
ingestion soil 7.14E-14	4.41E-13	3.67E-14
dermal contact soil 5.30E-14	1.89E-14	5.62E-14
inhalation soil 4.34E-16	6.97E-16	4.10E-16
ingestion drinking water 0.00E+00	0.00E+00	0.00E+00
dermal contact shower 0.00E+00	0.00E+00	0.00E+00
inhalation vapour shower 0.00E+00	0.00E+00	0.00E+00
ingestion milk 1.46E-12	5.23E-12	1.11E-12
ingestion meat 2.66E-12	5.07E-12	2.44E-12
ingestion vegetables 1.20E-13	2.21E-13	1.10E-13
ingestion surface water 0.00E+00	0.00E+00	0.00E+00
ingestion suspended matter 0.00E+00	0.00E+00	0.00E+00
dermal contact surface water 0.00E+00	0.00E+00	0.00E+00
ingestion fish 0.00E+00	0.00E+00	0.00E+00
Total exposure 5.49E-12	1.26E-11	4.82E-12

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= Uptake Table =

Measurement : Measurement 9
Substance : 1,2,3,7,8 PeCDF

Exposure per route (mg/(kg.d))

Exposure route	Child	Adult
Lifelong		
inhalation indoor air 8.28E-14	2.67E-13	6.55E-14
inhalation outdoor air 1.23E-13	3.61E-14	1.31E-13
ingestion soil 6.18E-13	3.82E-12	3.18E-13
dermal contact soil 4.59E-13	1.64E-13	4.87E-13
inhalation soil 3.76E-15	6.03E-15	3.55E-15
ingestion drinking water 0.00E+00	0.00E+00	0.00E+00
dermal contact shower 0.00E+00	0.00E+00	0.00E+00
inhalation vapour shower 0.00E+00	0.00E+00	0.00E+00
ingestion milk 3.12E-11	1.11E-10	2.37E-11
ingestion meat 5.89E-11	1.12E-10	5.39E-11
ingestion vegetables 2.62E-12	4.84E-12	2.41E-12
ingestion surface water 0.00E+00	0.00E+00	0.00E+00
ingestion suspended matter 0.00E+00	0.00E+00	0.00E+00
dermal contact surface water 0.00E+00	0.00E+00	0.00E+00
ingestion fish 0.00E+00	0.00E+00	0.00E+00
Total exposure 9.40E-11	2.33E-10	8.10E-11

= Uptake Table =

Measurement : Measurement 10

Substance : 1,2,3,4,7,8 HxCDF

Exposure per route (mg/(kg.d))

Exposure route Lifelong	Child	Adult
inhalation indoor air 4.67E-13	1.50E-12	3.69E-13
inhalation outdoor air 6.93E-13	2.03E-13	7.38E-13
ingestion soil 9.13E-13	5.64E-12	4.70E-13
dermal contact soil 6.78E-13	2.42E-13	7.19E-13
inhalation soil 5.56E-15	8.92E-15	5.24E-15
ingestion drinking water 0.00E+00	0.00E+00	0.00E+00
dermal contact shower 0.00E+00	0.00E+00	0.00E+00
inhalation vapour shower 0.00E+00	0.00E+00	0.00E+00
ingestion milk 5.79E-11	3.07E-10	4.39E-11
ingestion meat 1.84E-10	3.49E-10	1.68E-10
ingestion vegetables 9.36E-12	1.73E-11	8.62E-12
ingestion surface water 0.00E+00	0.00E+00	0.00E+00
ingestion suspended matter 0.00E+00	0.00E+00	0.00E+00
dermal contact surface water 0.00E+00	0.00E+00	0.00E+00
ingestion fish 0.00E+00	0.00E+00	0.00E+00
Total exposure 2.54E-10	5.81E-10	2.23E-10

= Uptake Table =

Measurement : Measurement 11
Substance : 2,3,4,7,8 PeCDF

Exposure per route (mg/(kg.d))

Exposure route Lifelong	Child	Adult
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inhalation indoor air 1.11E-12	3.57E-12	8.76E-13
inhalation outdoor air 1.64E-12	4.83E-13	1.75E-12
ingestion soil 7.72E-13	4.77E-12	3.98E-13
dermal contact soil 5.74E-13	2.04E-13	6.08E-13
inhalation soil 4.70E-15	7.54E-15	4.43E-15
ingestion drinking water 0.00E+00	0.00E+00	0.00E+00
dermal contact shower 0.00E+00	0.00E+00	0.00E+00
inhalation vapour shower 0.00E+00	0.00E+00	0.00E+00
ingestion milk 3.91E-11	1.40E-10	2.97E-11
ingestion meat 7.38E-11	1.41E-10	6.76E-11
ingestion vegetables 3.28E-12	6.05E-12	3.02E-12
ingestion surface water 0.00E+00	0.00E+00	0.00E+00
ingestion suspended matter 0.00E+00	0.00E+00	0.00E+00
dermal contact surface water 0.00E+00	0.00E+00	0.00E+00
ingestion fish 0.00E+00	0.00E+00	0.00E+00
Total exposure 1.20E-10	2.95E-10	1.04E-10

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= Uptake Table =

Measurement : Measurement 12
 Substance : 1,2,3,6,7,8 HxCDF

Exposure per route (mg/(kg.d))

Exposure route Lifelong	Child	Adult
inhalation indoor air 3.03E-13	9.79E-13	2.40E-13
inhalation outdoor air 4.50E-13	1.32E-13	4.80E-13

ingestion soil	4.13E-12	3.44E-13
6.69E-13		
dermal contact soil	1.77E-13	5.27E-13
4.97E-13		
inhalation soil	6.53E-15	3.84E-15
4.07E-15		
ingestion drinking water	0.00E+00	0.00E+00
0.00E+00		
dermal contact shower	0.00E+00	0.00E+00
0.00E+00		
inhalation vapour shower	0.00E+00	0.00E+00
0.00E+00		
ingestion milk	1.51E-10	3.22E-11
4.24E-11		
ingestion meat	2.56E-10	1.23E-10
1.34E-10		
ingestion vegetables	1.26E-11	6.31E-12
6.85E-12		
ingestion surface water	0.00E+00	0.00E+00
0.00E+00		
ingestion suspended matter	0.00E+00	0.00E+00
0.00E+00		
dermal contact surface water	0.00E+00	0.00E+00
0.00E+00		
ingestion fish	0.00E+00	0.00E+00
0.00E+00		

Total exposure	4.25E-10	1.63E-10
1.86E-10		

= Uptake Table =

Measurement : Measurement 13
 Substance : 1,2,3,7,8,9 HxCDF

Exposure per route (mg/(kg.d))

Exposure route	Child	Adult
Lifelong		
inhalation indoor air	1.30E-12	3.19E-13
4.04E-13		
inhalation outdoor air	1.76E-13	6.39E-13
5.99E-13		
ingestion soil	1.17E-12	9.71E-14
1.89E-13		
dermal contact soil	4.99E-14	1.49E-13
1.40E-13		
inhalation soil	1.84E-15	1.08E-15
1.15E-15		

ingestion drinking water	0.00E+00	0.00E+00
0.00E+00		
dermal contact shower	0.00E+00	0.00E+00
0.00E+00		
inhalation vapour shower	0.00E+00	0.00E+00
0.00E+00		
ingestion milk	4.28E-11	9.10E-12
1.20E-11		
ingestion meat	7.24E-11	3.48E-11
3.80E-11		
ingestion vegetables	3.57E-12	1.78E-12
1.93E-12		
ingestion surface water	0.00E+00	0.00E+00
0.00E+00		
ingestion suspended matter	0.00E+00	0.00E+00
0.00E+00		
dermal contact surface water	0.00E+00	0.00E+00
0.00E+00		
ingestion fish	0.00E+00	0.00E+00
0.00E+00		

Total exposure 1.21E-10 4.69E-11
5.33E-11

= Uptake Table =

Measurement : Measurement 14
Substance : 2,3,4,6,7,8 Hp CDF

Exposure per route (mg/(kg d))

Exposure route	Child	Adult
Lifelong		

inhalation indoor air	1.30E-12	3.19E-13
4.03E-13		
inhalation outdoor air	1.76E-13	6.37E-13
5.98E-13		
ingestion soil	4.00E-12	3.34E-13
6.48E-13		
dermal contact soil	1.72E-13	5.10E-13
4.81E-13		
inhalation soil	6.33E-15	3.72E-15
3.94E-15		
ingestion drinking water	0.00E+00	0.00E+00
0.00E+00		
dermal contact shower	0.00E+00	0.00E+00
0.00E+00		
inhalation vapour shower	0.00E+00	0.00E+00
0.00E+00		

ingestion milk 4.11E-11	1.47E-10	3.12E-11
ingestion meat 1.30E-10	2.48E-10	1.19E-10
ingestion vegetables 4.28E-12	7.89E-12	3.94E-12
ingestion surface water 0.00E+00	0.00E+00	0.00E+00
ingestion suspended matter 0.00E+00	0.00E+00	0.00E+00
dermal contact surface water 0.00E+00	0.00E+00	0.00E+00
ingestion fish 0.00E+00	0.00E+00	0.00E+00

Total exposure 4.08E-10 1.56E-10
1.78E-10

= Uptake Table =

Measurement : Measurement 15
Substance : 1,2,3,4,6,7,8 HpCDF

Exposure per route (mg/(kg.d))

Exposure route	Child	Adult
Lifelong		
inhalation indoor air 1.22E-13	3.92E-13	9.63E-14
inhalation outdoor air 1.81E-13	5.30E-14	1.93E-13
ingestion soil 3.89E-12	2.40E-11	2.00E-12
dermal contact soil 2.89E-12	1.03E-12	3.06E-12
inhalation soil 2.37E-14	3.80E-14	2.23E-14
ingestion drinking water 0.00E+00	0.00E+00	0.00E+00
dermal contact shower 0.00E+00	0.00E+00	0.00E+00
inhalation vapour shower 0.00E+00	0.00E+00	0.00E+00
ingestion milk 2.46E-10	8.79E-10	1.87E-10
ingestion meat 7.80E-10	1.49E-09	7.14E-10
ingestion vegetables 2.56E-11	4.73E-11	2.36E-11

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ingestion fish 0.00E+00	0.00E+00	0.00E+00

Total exposure 1.56E-10	3.40E-10	1.39E-10

= Uptake Table =

Measurement : Measurement 17
 Substance : OCDF

Exposure per route (mg/(kg.d))

Exposure route Lifelong	Child	Adult
inhalation indoor air 9.77E-15	3.15E-14	7.74E-15
inhalation outdoor air 1.45E-14	4.26E-15	1.55E-14
ingestion soil 3.90E-12	2.41E-11	2.01E-12
dermal contact soil 2.89E-12	1.03E-12	3.07E-12
inhalation soil 2.37E-14	3.80E-14	2.24E-14
ingestion drinking water 0.00E+00	0.00E+00	0.00E+00
dermal contact shower 0.00E+00	0.00E+00	0.00E+00
inhalation vapour shower 0.00E+00	0.00E+00	0.00E+00
ingestion milk 2.47E-10	8.81E-10	1.87E-10
ingestion meat 7.82E-10	1.49E-09	7.15E-10
ingestion vegetables 2.34E-10	4.32E-10	2.16E-10
ingestion surface water 0.00E+00	0.00E+00	0.00E+00
ingestion suspended matter 0.00E+00	0.00E+00	0.00E+00
dermal contact surface water 0.00E+00	0.00E+00	0.00E+00
ingestion fish 0.00E+00	0.00E+00	0.00E+00

Total exposure 1.27E-09	2.83E-09	1.12E-09

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= Risk Table =

Maximum Permissible Risk level

Measurement Dose/RfD	Substance	Dose (mg/ (kg.d))	RfD (mg/ (kg.d))
Measurement 1 6.35E-04	dioxine 2378 TeCDD	6.35E-12	1.00E-08
Measurement 2 7.22E-11	dioxine 1,2,3,7,8-PeCDD		0.00E+00
Measurement 3	dioxine 1,2,3,6,7,8	1.82E-10	0.00E+00
Measurement 4	dioxine 1,2,3,4,7,8	1.12E-10	0.00E+00
Measurement 5	dioxine 1,2,3,7,8,9	2.18E-10	0.00E+00
Measurement 6	dioxine 1,2,3,4,6,7,8	1.45E-09	0.00E+00
Measurement 7 6.33E+00	dioxine OCDD	6.33E-08	1.00E-08
Measurement 8	2,3,7,8 TCDF	5.49E-12	0.00E+00
Measurement 9	1,2,3,7,8 PeCDF	9.40E-11	0.00E+00
Measurement 10	1,2,3,4,7,8 HxCDF	2.54E-10	0.00E+00
Measurement 11	2,3,4,7,8 PeCDF	1.20E-10	0.00E+00
Measurement 12	1,2,3,6,7,8 HxCDF	1.86E-10	0.00E+00
Measurement 13	1,2,3,7,8,9 HxCDF	5.33E-11	0.00E+00
Measurement 14	2,3,4,6,7,8 Hp CDF	1.78E-10	0.00E+00
Measurement 15	1,2,3,4,6,7,8 HpCDF	1.06E-09	0.00E+00
Measurement 16	1,2,3,4,7,8,9 HpCDF	1.56E-10	0.00E+00
Measurement 17	OCDF	1.27E-09	0.00E+00

RfD = Reference Dose

Indoor concentration in air

Measurement Cia/TCA	Substance	Cia (µg/m3)	TCA (µg/m3)
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Measurement 1	dioxine 2378 TeCDD	2.36E-09	0.00E+00
Measurement 2	dioxine 1,2,3,7,8-PeCDD		0.00E+00
6.41E-09			
Measurement 3	dioxine 1,2,3,6,7,8	1.44E-09	0.00E+00
Measurement 4	dioxine 1,2,3,4,7,8	1.80E-09	0.00E+00
Measurement 5	dioxine 1,2,3,7,8,9	1.94E-09	0.00E+00
Measurement 6	dioxine 1,2,3,4,6,7,8	1.17E-09	0.00E+00
Measurement 7	dioxine OCDD	1.64E-10	0.00E+00
Measurement 8	2,3,7,8 TCDF	3.21E-09	0.00E+00
Measurement 9	1,2,3,7,8 PeCDF	5.92E-10	0.00E+00
Measurement 10	1,2,3,4,7,8 HxCDF	3.34E-09	0.00E+00
Measurement 11	2,3,4,7,8 PeCDF	7.92E-09	0.00E+00
Measurement 12	1,2,3,6,7,8 HxCDF	2.17E-09	0.00E+00
Measurement 13	1,2,3,7,8,9 HxCDF	2.89E-09	0.00E+00
Measurement 14	2,3,4,6,7,8 Hp CDF	2.88E-09	0.00E+00
Measurement 15	1,2,3,4,6,7,8 HpCDF	8.70E-10	0.00E+00
Measurement 16	1,2,3,4,7,8,9 HpCDF	2.80E-10	0.00E+00
Measurement 17	OCDF	6.99E-11	0.00E+00

TCA = Tolerable Concentration in Air Cia = Concentration in indoor air

Outdoor concentration in air

Measurement	Substance	Coa (µg/m3)	TCA (µg/m3)
Coa/TCA			
Measurement 1	dioxine 2378 TeCDD	2.36E-09	0.00E+00
Measurement 2	dioxine 1,2,3,7,8-PeCDD		0.00E+00
6.41E-09			
Measurement 3	dioxine 1,2,3,6,7,8	1.44E-09	0.00E+00
Measurement 4	dioxine 1,2,3,4,7,8	1.80E-09	0.00E+00

Measurement 5	dioxine 1,2,3,7,8,9	1.94E-09	0.00E+00
-			
Measurement 6	dioxine 1,2,3,4,6,7,8	1.17E-09	0.00E+00
-			
Measurement 7	dioxine OCDD	1.64E-10	0.00E+00
-			
Measurement 8	2,3,7,8 TCDF	3.21E-09	0.00E+00
-			
Measurement 9	1,2,3,7,8 PeCDF	5.92E-10	0.00E+00
-			
Measurement 10	1,2,3,4,7,8 HxCDF	3.34E-09	0.00E+00
-			
Measurement 11	2,3,4,7,8 PeCDF	7.92E-09	0.00E+00
-			
Measurement 12	1,2,3,6,7,8 HxCDF	2.17E-09	0.00E+00
-			
Measurement 13	1,2,3,7,8,9 HxCDF	2.89E-09	0.00E+00
-			
Measurement 14	2,3,4,6,7,8 Hp CDF	2.88E-09	0.00E+00
-			
Measurement 15	1,2,3,4,6,7,8 HpCDF	8.70E-10	0.00E+00
-			
Measurement 16	1,2,3,4,7,8,9 HpCDF	2.80E-10	0.00E+00
-			
Measurement 17	OCDF	6.99E-11	0.00E+00
-			

TCA = Tolerable Concentration in Air Coa = Concentration in outdoor air
Concentration in drinking water

Measurement Cdw/standard	Substance	Cdw(µg/l)	standard(µg/l)
Measurement 1	dioxine 2378 TeCDD	1.24E-13	0.00E+00
-			
Measurement 2	dioxine 1,2,3,7,8-PeCDD		0.00E+00
0.00E+00			
-			
Measurement 3	dioxine 1,2,3,6,7,8	0.00E+00	0.00E+00
-			
Measurement 4	dioxine 1,2,3,4,7,8	0.00E+00	0.00E+00
-			
Measurement 5	dioxine 1,2,3,7,8,9	0.00E+00	0.00E+00
-			
Measurement 6	dioxine 1,2,3,4,6,7,8	0.00E+00	0.00E+00
-			
Measurement 7	dioxine OCDD	6.42E-11	0.00E+00
-			
Measurement 8	2,3,7,8 TCDF	0.00E+00	0.00E+00
-			
Measurement 9	1,2,3,7,8 PeCDF	0.00E+00	0.00E+00
-			

Measurement 10	1,2,3,4,7,8 HxCDF	0.00E+00	0.00E+00
-			
Measurement 11	2,3,4,7,8 PeCDF	0.00E+00	0.00E+00
-			
Measurement 12	1,2,3,6,7,8 HxCDF	0.00E+00	0.00E+00
-			
Measurement 13	1,2,3,7,8,9 HxCDF	0.00E+00	0.00E+00
-			
Measurement 14	2,3,4,6,7,8 Hp CDF	0.00E+00	0.00E+00
-			
Measurement 15	1,2,3,4,6,7,8 HpCDF	0.00E+00	0.00E+00
-			
Measurement 16	1,2,3,4,7,8,9 HpCDF	0.00E+00	0.00E+00
-			
Measurement 17	OCDF	0.00E+00	0.00E+00
-			

 Cdw = Concentration in drinking water

Background

Measurement	Substance	Dose (mg/ (kg.d))	
Background (mg/ (kg.d))			
Measurement 1	dioxine 2378 TeCDD	6.35E-12	0.00E+00
Measurement 2	dioxine 1,2,3,7,8-PeCDD	7.22E-11	0.00E+00
Measurement 3	dioxine 1,2,3,6,7,8	1.82E-10	0.00E+00
Measurement 4	dioxine 1,2,3,4,7,8	1.12E-10	0.00E+00
Measurement 5	dioxine 1,2,3,7,8,9	2.18E-10	0.00E+00
Measurement 6	dioxine 1,2,3,4,6,7,8	1.45E-09	0.00E+00
Measurement 7	dioxine OCDD	6.33E-08	0.00E+00
Measurement 8	2,3,7,8 TCDF	5.49E-12	0.00E+00
Measurement 9	1,2,3,7,8 PeCDF	9.40E-11	0.00E+00
Measurement 10	1,2,3,4,7,8 HxCDF	2.54E-10	0.00E+00
Measurement 11	2,3,4,7,8 PeCDF	1.20E-10	0.00E+00
Measurement 12	1,2,3,6,7,8 HxCDF	1.86E-10	0.00E+00
Measurement 13	1,2,3,7,8,9 HxCDF	5.33E-11	0.00E+00
Measurement 14	2,3,4,6,7,8 Hp CDF	1.78E-10	0.00E+00
Measurement 15	1,2,3,4,6,7,8 HpCDF	1.06E-09	0.00E+00
Measurement 16	1,2,3,4,7,8,9 HpCDF	1.56E-10	0.00E+00
Measurement 17	OCDF	1.27E-09	0.00E+00

Substance : dioxine 2378 TeCDD

Physical-chemical parameters

Molecular weight 3.22E+02 g.mol-1

Water solubility	3.00E-04	mg.l-1
Vapour pressure	1.40E-06	Pa
Klw	6.39E-04	-
Log Kow	6.80E+00	-
Log Koc	6.41E+00	dm3.kg-1
Kd	-	dm3.kg-1
BCF(root)	-	-
BCF(stem)	-	-
D(pe)	1.00E-07	m2.d-1
Diffusion coefficient (air)	-	m2.h-1
Diffusion coefficient (water)	-	m2.h-1
DAR(adult)	5.00E-03	h-1
DAR(child)	1.00E-02	h-1
fexcr	-	-
pKa	-	-

Standards		
RfD	1.00E-08	mg.kg-1.d-1
TCA	-	µg.m-3
Drinking water standard	-	µg.l-1

Background dose		
Background concentration	0.00E+00	µg.m-3

Substance : dioxine OCDD

Physical-chemical parameters

Molecular weight	4.60E+02	g.mol-1
Water solubility	4.00E-07	mg.l-1
Vapour pressure	5.93E-10	Pa
Klw	2.90E-04	-
Log Kow	8.20E+00	-
Log Koc	7.81E+00	dm3.kg-1
Kd	-	dm3.kg-1
BCF(root)	-	-
BCF(stem)	-	-
D(pe)	1.00E-07	m2.d-1
Diffusion coefficient (air)	-	m2.h-1
Diffusion coefficient (water)	-	m2.h-1
DAR(adult)	5.00E-03	h-1
DAR(child)	1.00E-02	h-1
fexcr	-	-
pKa	-	-

Standards		
RfD	1.00E-08	mg.kg-1.d-1
TCA	-	µg.m-3
Drinking water standard	-	µg.l-1

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Background dose
Background concentration 0.00E+00 µg.m-3

Substance : dioxine 1,2,3,7,8-PeCDD
Based on : none [organic - user defined]

Description

1,2,3,7,8-PeCDD

Physical-chemical parameters

Molecular weight	3.56E+02	g.mol-1
Water solubility	1.18E-04	mg.l-1
Vapour pressure	8.80E-08	Pa
Klw	1.13E-04	-
Log Kow	7.40E+00	-
Log Koc	6.38E+00	dm3.kg-1
Kd	0.00E+00	dm3.kg-1
BCF(root) calculated	-	-
BCF(stem) calculated	-	-
D(pe)	0.00E+00	m2.d-1
Diffusion coefficient (air) calculated	-	m2.h-1
Diffusion coefficient (water) calculated	-	m2.h-1
DAR(adult)	5.00E-03	h-1
DAR(child)	1.00E-02	h-1
fexcr	0.00E+00	-
pKa calculated	-	-

Justification

Parameters from Phys Chem Props of organic chemicals Vol 3 and US EPA vol 3

Standards

RfD	0.00E+00	mg.kg-1.d-1
TCA	0.00E+00	µg.m-3
Drinking water standard	0.00E+00	µg.l-1

Justification

Background dose
Background concentration 0.00E+00 µg.m-3

Justification

Substance : dioxine 1,2,3,6,7,8
Based on : none [organic - user defined]
Description
dioxin 1,2,3,6,7,8 HxCDD
Physical-chemical parameters

Moleculair weight	3.91E+02	g.mol-1
Water solubility	4.40E-06	mg.l-1
Vapour pressure	5.10E-09	Pa
Klw	4.61E-04	-
Log Kow	7.80E+00	-
Log Koc	7.10E+00	dm3.kg-1
Kd	0.00E+00	dm3.kg-1
BCF(root)	-	-
calculated		
BCF(stem)	-	-
calculated		
D(pe)	0.00E+00	m2.d-1
Diffusion coefficient (air)	-	m2.h-1
calculated		
Diffusion coefficient (water)	-	m2.h-1
calculated		
DAR(adult)	5.00E-03	h-1
DAR(child)	1.00E-02	h-1
fexcr	0.00E+00	-
pKa	-	-
calculated		

Justification
As above

Standards

Rfd	0.00E+00	mg.kg-1.d-1
TCA	0.00E+00	µg.m-3
Drinking water standard	0.00E+00	µg.l-1

Justification

Background dose

Background concentration	0.00E+00	µg.m-3
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Justification

Substance : dioxine 1,2,3,4,7,8
Based on : none [organic - user defined]
Description
dioxin 1,2,3,4,7,8 HcDD
Physical-chemical parameters

Moleculair weight	3.91E+02	g.mol-1
Water solubility	4.40E-06	mg.l-1
Vapour pressure	5.10E-09	Pa
Klw	4.61E-04	-

Log Kow	7.80E+00	-
Log Koc	7.10E+00	dm3.kg-1
Kd	0.00E+00	dm3.kg-1
BCF(root) calculated	-	-
BCF(stem) calculated	-	-
D(pe)	0.00E+00	m2.d-1
Diffusion coefficient (air) calculated	-	m2.h-1
Diffusion coefficient(water) calculated	-	m2.h-1
DAR(adult)	5.00E-03	h-1
DAR(child)	1.00E-02	h-1
fexcr	0.00E+00	-
pKa calculated	-	-

Justification
as above

Standards

RfD	0.00E+00	mg.kg-1.d-1
TCA	0.00E+00	µg.m-3
Drinking water standard	0.00E+00	µg.l-1

Justification

Background dose

Background concentration	0.00E+00	µg.m-3
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Justification

Substance : dioxine 1,2,3,7,8,9
Based on : none [organic - user defined]

Description

dioxin 1,2,3,7,8,9 HxCDD

Physical-chemical parameters

Molecular weight	3.91E+02	g.mol-1
Water solubility	4.60E-06	mg.l-1
Vapour pressure	5.10E-09	Pa
Klw	4.61E-04	-
Log Kow	7.80E+00	-
Log Koc	7.10E+00	dm3.kg-1
Kd	0.00E+00	dm3.kg-1
BCF(root) calculated	-	-
BCF(stem) calculated	-	-
D(pe)	0.00E+00	m2.d-1

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Diffusion coefficient (air)	-	m2.h-1
calculated		
Diffusion coefficient(water)	-	m2.h-1
calculated		
DAR(adult)	5.00E-03	h-1
DAR(child)	1.00E-02	h-1
fexcr	0.00E+00	-
pKa	-	-
calculated		

Justification
as above

Standards		
RfD	0.00E+00	mg.kg-1.d-1
TCA	0.00E+00	µg.m-3
Drinking water standard	0.00E+00	µg.l-1

Justification

Background dose		
Background concentration	0.00E+00	µg.m-3

Justification

Substance : dioxine 1,2,3,4,6,7,8
Based on : none [organic - user defined]

Description

dioxin 1,2,3,4,6,7,8, HpCdd

Physical-chemical parameters

Moleculair weight	4.25E+02	g.mol-1
Water solubility	2.40E-06	mg.l-1
Vapour pressure	7.50E-10	Pa
Klw	5.41E-04	-
Log Kow	8.00E+00	-
Log Koc	7.80E+00	dm3.kg-1
Kd	0.00E+00	dm3.kg-1
BCF(root)	-	-
calculated		
BCF(stem)	-	-
calculated		
D(pe)	0.00E+00	m2.d-1
Diffusion coefficient (air)	-	m2.h-1
calculated		
Diffusion coefficient(water)	-	m2.h-1
calculated		
DAR(adult)	5.00E-03	h-1
DAR(child)	1.00E-02	h-1
fexcr	0.00E+00	-
pKa	-	-
calculated		

Justification
as above

Standards

RfD	0.00E+00	mg.kg-1.d-1
TCA	0.00E+00	µg.m-3
Drinking water standard	0.00E+00	µg.l-1

Justification

Background dose

Background concentration	0.00E+00	µg.m-3
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Justification

Substance : 2,3,7,8 TCDF

Based on : none [organic - user defined]

Description

2,3,7,8 TCDF

Physical-chemical parameters

Molecular weight	1.68E+00	g.mol-1
Water solubility	4.19E-03	mg.l-1
Vapour pressure	2.00E-06	Pa
Klw	6.21E-04	-
Log Kow	6.10E+00	-
Log Koc	7.50E+00	dm3.kg-1
Kd	0.00E+00	dm3.kg-1
BCF(root) calculated	-	-
BCF(stem) calculated	-	-
D(pe)	0.00E+00	m2.d-1
Diffusion coefficient (air) calculated	-	m2.h-1
Diffusion coefficient (water) calculated	-	m2.h-1
DAR(adult)	5.00E-03	h-1
DAR(child)	1.00E-02	h-1
fexcr	0.00E+00	-
pKa calculated	-	-

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Justification

As above

Standards

RfD	0.00E+00	mg.kg-1.d-1
TCA	0.00E+00	µg.m-3
Drinking water standard	0.00E+00	µg.l-1

Justification

Background dose
Background concentration 0.00E+00 µg.m-3

Justification

Substance : 1,2,3,7,8 PeCDF
Based on : none [organic - user defined]
Description
1,2,3,7,8 PeCDF
Physical-chemical parameters
Molecular weight 3.40E+02 g.mol-1
Water solubility 2.36E-04 mg.l-1
Vapour pressure 3.50E-07 Pa
Klw 2.15E-04 -
Log Kow 6.50E+00 -
Log Koc 7.40E+00 dm3.kg-1
Kd 0.00E+00 dm3.kg-1
BCF(root) calculated -
BCF(stem) calculated -
D(pe) 0.00E+00 m2.d-1
Diffusion coefficient (air) calculated m2.h-1
Diffusion coefficient (water) calculated m2.h-1
DAR(adult) 5.00E-03 h-1
DAR(child) 1.00E-02 h-1
fexcr 0.00E+00 -
pKa calculated -

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Justification

As above

Standards
RfD 0.00E+00 mg.kg-1.d-1
TCA 0.00E+00 µg.m-3
Drinking water standard 0.00E+00 µg.l-1

Justification

Background dose
Background concentration 0.00E+00 µg.m-3

Justification

Substance : 2,3,4,7,8 PeCDF
Based on : 1,2,3,7,8 PeCDF [organic - user defined]

Description

2,3,4,7,8 Pe CDF

Physical-chemical parameters

Molecular weight	3.40E+02	g.mol-1
Water solubility	2.36E-01	mg.l-1
Vapour pressure	3.50E-07	Pa
Klw	2.15E-04	-
Log Kow	6.50E+00	-
Log Koc	7.40E+00	dm3.kg-1
Kd	0.00E+00	dm3.kg-1
BCF(root) calculated	-	-
BCF(stem) calculated	-	-
D(pe)	0.00E+00	m2.d-1
Diffusion coefficient (air) calculated	-	m2.h-1
Diffusion coefficient (water) calculated	-	m2.h-1
DAR(adult)	5.00E-03	h-1
DAR(child)	1.00E-02	h-1
fexcr	0.00E+00	-
pKa calculated	-	-

Justification

As above

Standards

RfD	0.00E+00	mg.kg-1.d-1
TCA	0.00E+00	µg.m-3
Drinking water standard	0.00E+00	µg.l-1

Justification

Background dose

Background concentration	0.00E+00	µg.m-3
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Justification

Substance : 1,2,3,4,7,8 HxCDF

Based on : none [organic - user defined]

Description

1,2,3,4,7,8 HxCDF

Physical-chemical parameters

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Molecular weight	3.75E+02	g.mol-1
Water solubility	1.77E-04	mg.l-1
Vapour pressure	3.50E-08	Pa
Klw	3.15E-04	-
Log Kow	7.00E+00	-
Log Koc	7.40E+00	dm3.kg-1
Kd	0.00E+00	dm3.kg-1
BCF(root) calculated	-	-
BCF(stem) calculated	-	-
D(pe)	0.00E+00	m2.d-1
Diffusion coefficient (air) calculated	-	m2.h-1
Diffusion coefficient (water) calculated	-	m2.h-1
DAR (adult)	5.00E-03	h-1
DAR (child)	1.00E-02	h-1
fexcr	0.00E+00	-
pKa calculated	-	-

Justification
as above

Standards

RfD	0.00E+00	mg.kg-1.d-1
TCA	0.00E+00	µg.m-3
Drinking water standard	0.00E+00	µg.l-1

Justification

Background dose

Background concentration	0.00E+00	µg.m-3
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Justification

Substance : 1,2,3,6,7,8 HxCDF
Based on : 1,2,3,4,7,8 HxCDF [organic - user defined]
Description
1,2,3,6,7,8 Hx CDF

Physical-chemical parameters

Molecular weight	3.75E+02	g.mol-1
Water solubility	1.77E-04	mg.l-1
Vapour pressure	3.50E-08	Pa
Klw	3.15E-04	-
Log Kow	7.00E+00	-
Log Koc	7.40E+00	dm3.kg-1
Kd	0.00E+00	dm3.kg-1
BCF(root) calculated	-	-

BCF(stem)	-	-
calculated		
D(pe)	0.00E+00	m2.d-1
Diffusion coefficient (air)	-	m2.h-1
calculated		
Diffusion coefficient(water)	-	m2.h-1
calculated		
DAR(adult)	5.00E-03	h-1
DAR(child)	1.00E-02	h-1
fexcr	0.00E+00	-
pKa	-	-
calculated		

Justification
as above

Standards		
RfD	0.00E+00	mg.kg-1.d-1
TCA	0.00E+00	µg.m-3
Drinking water standard	0.00E+00	µg.l-1

Justification

Background dose		
Background concentration	0.00E+00	µg.m-3

Justification

Substance : 1,2,3,7,8,9 HxCDF
Based on : 1,2,3,6,7,8 HxCDF [organic - user defined]

Description		
1,2,3,7,8,9 HxCDF		
Physical-chemical parameters		
Molecular weight	3.75E+02	g.mol-1
Water solubility	1.77E-04	mg.l-1
Vapour pressure	3.50E-08	Pa
Klw	3.15E-04	-
Log Kow	7.00E+00	-
Log Koc	7.40E+00	dm3.kg-1
Kd	0.00E+00	dm3.kg-1
BCF(root)	-	-
calculated		
BCF(stem)	-	-
calculated		
D(pe)	0.00E+00	m2.d-1
Diffusion coefficient (air)	-	m2.h-1
calculated		
Diffusion coefficient(water)	-	m2.h-1
calculated		
DAR(adult)	5.00E-03	h-1
DAR(child)	1.00E-02	h-1

fexcr	0.00E+00	-
pKa	-	-
calculated		
Justification		
as above		
Standards		
RfD	0.00E+00	mg.kg-1.d-1
TCA	0.00E+00	µg.m-3
Drinking water standard	0.00E+00	µg.l-1

Justification

Background dose		
Background concentration	0.00E+00	µg.m-3

Justification

Substance : 2,3,4,6,7,8 Hp CDF
Based on : none [organic - user defined]
Description
2,3,4,6,7,8 Hp CDF
Physical-chemical parameters

Molecular weight	4.09E+02	g.mol-1
Water solubility	1.30E-06	mg.l-1
Vapour pressure	4.70E-09	Pa
Klw	6.06E-04	-
Log Kow	7.40E+00	-
Log Koc	7.90E+00	dm3.kg-1
Kd	0.00E+00	dm3.kg-1
BCF(root)	-	-
calculated		
BCF(stem)	-	-
calculated		
D(pe)	0.00E+00	m2.d-1
Diffusion coefficient (air)	-	m2.h-1
calculated		
Diffusion coefficient (water)	-	m2.h-1
calculated		
DAR(adult)	5.00E-03	h-1
DAR(child)	1.00E-02	h-1
fexcr	0.00E+00	-
pKa	-	-
calculated		

Justification
as above

Standards		
RfD	0.00E+00	mg.kg-1.d-1

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TCA	0.00E+00	µg.m-3
Drinking water standard	0.00E+00	µg.l-1

Justification

Background dose		
Background concentration	0.00E+00	µg.m-3

Justification

Substance : 1,2,3,4,6,7,8 HpCDF
Based on : 2,3,4,6,7,8 Hp CDF [organic - user defined]

Description

1,2,3,4,6,7,8 HpCDF

Physical-chemical parameters

Molecular weight	4.09E+02	g.mol-1
Water solubility	1.30E-06	mg.l-1
Vapour pressure	4.70E-09	Pa
Klw	6.06E-04	-
Log Kow	7.40E+00	-
Log Koc	7.90E+00	dm3.kg-1
Kd	0.00E+00	dm3.kg-1
BCF(root) calculated	-	-
BCF(stem) calculated	-	-
D(pe)	0.00E+00	m2.d-1
Diffusion coefficient (air) calculated	-	m2.h-1
Diffusion coefficient (water) calculated	-	m2.h-1
DAR(adult)	5.00E-03	h-1
DAR(child)	1.00E-02	h-1
fexcr	0.00E+00	-
pKa calculated	-	-

Justification
as above

Standards

RfD	0.00E+00	mg.kg-1.d-1
TCA	0.00E+00	µg.m-3
Drinking water standard	0.00E+00	µg.l-1

Justification

Background dose		
Background concentration	0.00E+00	µg.m-3

Justification

Substance : 1,2,3,4,7,8,9 HpCDF
Based on : 1,2,3,4,6,7,8 HpCDF [organic - user defined]

Description

1,2,3,4,7,8,9 HpCDF

Physical-chemical parameters

Molecular weight	4.09E+02	g.mol-1
Water solubility	1.30E-06	mg.l-1
Vapour pressure	4.62E-08	Pa
Klw	6.06E-04	-
Log Kow	7.40E+00	-
Log Koc	6.70E+00	dm3.kg-1
Kd	0.00E+00	dm3.kg-1
BCF(root) calculated	-	-
BCF(stem) calculated	-	-
D(pe)	0.00E+00	m2.d-1
Diffusion coefficient (air) calculated	-	m2.h-1
Diffusion coefficient (water) calculated	-	m2.h-1
DAR(adult)	5.00E+03	h-1
DAR(child)	1.00E-02	h-1
fexcr	0.00E+00	-
pKa calculated	-	-

Justification

as above

Standards

RfD	0.00E+00	mg.kg-1.d-1
TCA	0.00E+00	µg.m-3
Drinking water standard	0.00E+00	µg.l-1

Justification

Background dose

Background concentration	0.00E+00	µg.m-3
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Justification

Substance : OCDF

Based on : none [organic - user defined]

Description		
OCDF		
Physical-chemical parameters		
Molecular weight	4.44E+02	g.mol-1
Water solubility	1.16E-06	mg.l-1
Vapour pressure	5.10E-10	Pa
Klw	8.12E-05	-
Log Kow	8.00E+00	-
Log Koc	7.40E+00	dm3.kg-1
Kd	0.00E+00	dm3.kg-1
BCF(root)	-	-
calculated		
BCF(stem)	-	-
calculated		
D(pe)	0.00E+00	m2.d-1
Diffusion coefficient (air)	-	m2.h-1
calculated		
Diffusion coefficient (water)	0.00E+00	m2.h-1
DAR(adult)	5.00E-03	h-1
DAR(child)	1.00E-02	h-1
fexcr	0.00E+00	-
pKa	-	-
calculated		

Justification
as above

Standards

RfD	0.00E+00	mg.kg-1.d-1
TCA	0.00E+00	µg.m-3
Drinking water standard	0.00E+00	µg.l-1

Justification

Background dose

Background concentration	0.00E+00	µg.m-3
--------------------------	----------	--------

Justification

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ATTACHMENT O
PIE CHART OF MODELLED INTAKE FOR PDCC/F EMISSIONS FROM WTE
FACILITY

*For inspection purposes only.
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Substance : dioxine 2378

Pie chart RISC Human version 3.0

Measurement : Measurement 1

Subsite : Subsite 0

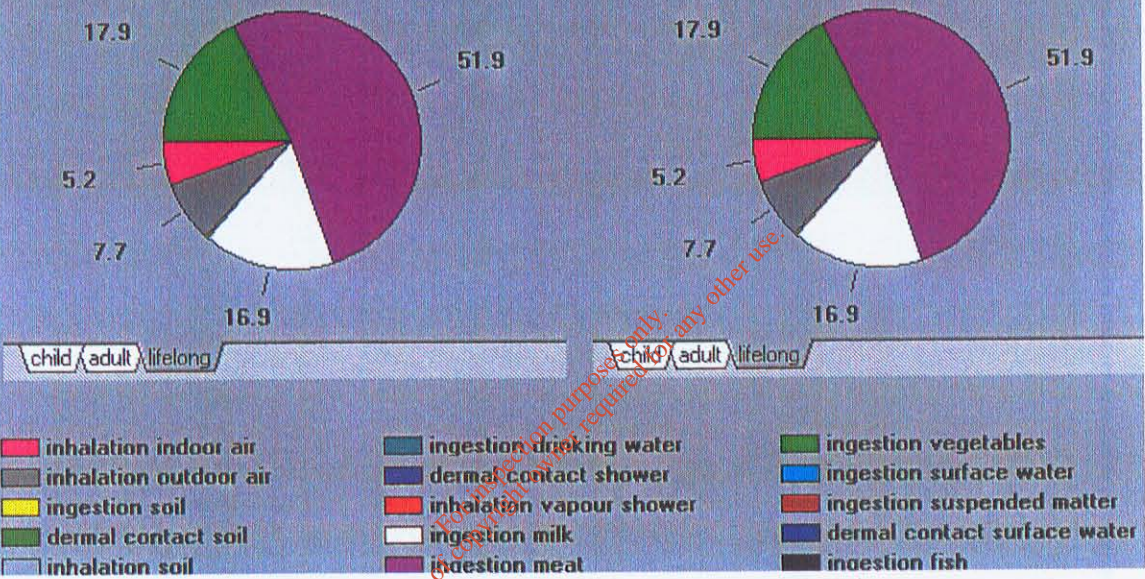
Substance : dioxine 2378 Te

Scenario

Scenario 0

Compare scenario

Scenario 0



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Pie chart RISC Human version 3.0

Substance : dioxine 1,2,3,7,8

Measurement : Measurement 2

Subsite : Subsite 0

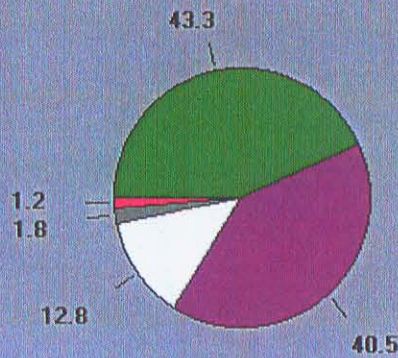
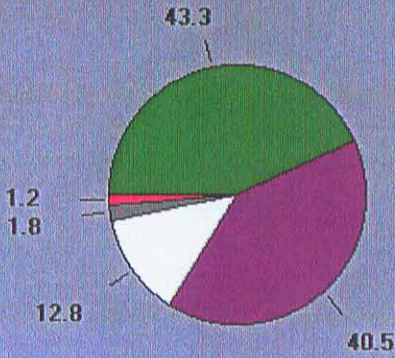
Substance : dioxine 1,2,3,7,8

Scenario

Scenario 0

Compare scenario

Scenario 0



child / adult / lifelong

child / adult / lifelong

- inhalation indoor air
- ingestion drinking water
- ingestion vegetables
- inhalation outdoor air
- dermal contact shower
- ingestion surface water
- ingestion soil
- inhalation vapour shower
- ingestion suspended matter
- dermal contact soil
- ingestion milk
- dermal contact surface water
- inhalation soil
- ingestion meat
- ingestion fish

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Substance : dioxine 1,2,3

Pie chart RISC Human version 3.0

Measurement : Measurement 3

Subsite : Subsite 0

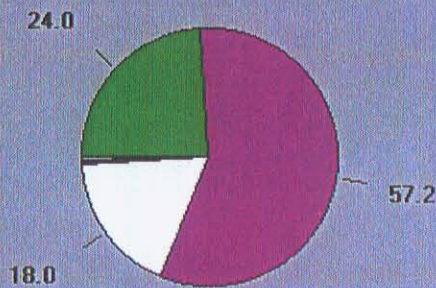
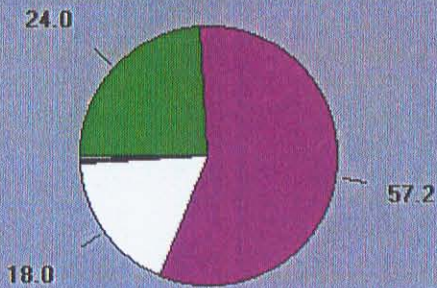
Substance : dioxine 1,2,3,6,7

Scenario

Scenario 0

Compare scenario

Scenario 0



child / adult / lifelong

child / adult / lifelong

- inhalation indoor air
- inhalation outdoor air
- ingestion soil
- dermal contact soil
- inhalation soil

- ingestion drinking water
- dermal contact shower
- inhalation vapour shower
- ingestion milk
- ingestion meat

- ingestion vegetables
- ingestion surface water
- ingestion suspended matter
- dermal contact surface water
- ingestion fish

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Pie chart RISC Human version 3.0

Substance : dioxine 1,2,3,4,7

Measurement : Measurement 4

Subsite : Subsite 0

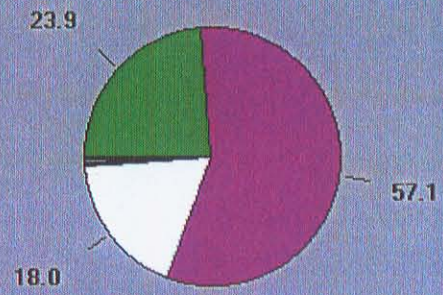
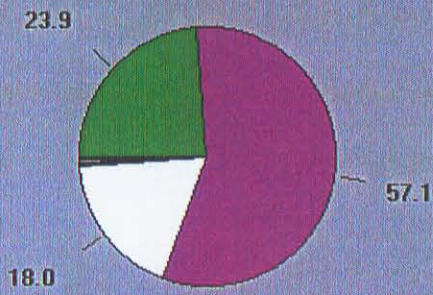
Substance : dioxine 1,2,3,4,7

Scenario

Scenario 0

Compare scenario

Scenario 0



child / adult / lifelong

child / adult / lifelong

- | | | |
|------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| ■ inhalation indoor air | ■ ingestion drinking water | ■ ingestion vegetables |
| ■ inhalation outdoor air | ■ dermal contact shower | ■ ingestion surface water |
| ■ ingestion soil | ■ inhalation vapour shower | ■ ingestion suspended matter |
| ■ dermal contact soil | ■ ingestion milk | ■ dermal contact surface water |
| ■ inhalation soil | ■ ingestion meat | ■ ingestion fish |

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Pie chart RISC Human version 3.0

Substance : dioxine 1,2,3

Measurement : Measurement 5

Subsite : Subsite 0

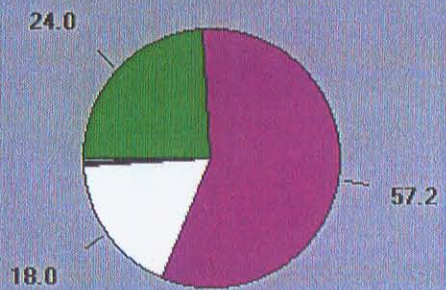
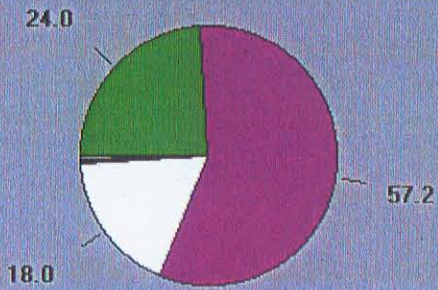
Substance : dioxine 1,2,3,7,8

Scenario

Scenario 0

Compare scenario

Scenario 0



child / adult / lifelong

child / adult / lifelong

- | | | |
|------------------------|--------------------------|------------------------------|
| inhalation indoor air | ingestion drinking water | ingestion vegetables |
| inhalation outdoor air | dermal contact shower | ingestion surface water |
| ingestion soil | inhalation vapour shower | ingestion suspended matter |
| dermal contact soil | ingestion milk | dermal contact surface water |
| inhalation soil | ingestion meat | ingestion fish |

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Pie chart RISC Human version 3.0

Substance : dioxine 1,2,3,4,6,7,8

Measurement : Measurement 6

Subsite : Subsite 0

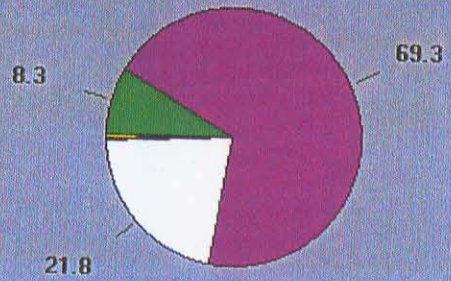
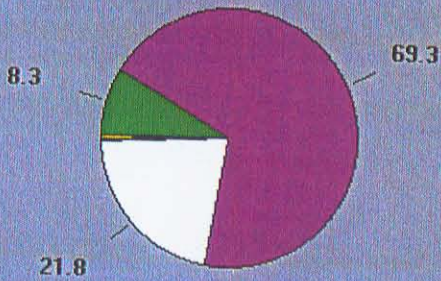
Substance : dioxine 1,2,3,4,6,7,8

Scenario

Scenario 0

Compare scenario

Scenario 0



child / adult / lifelong

child / adult / lifelong

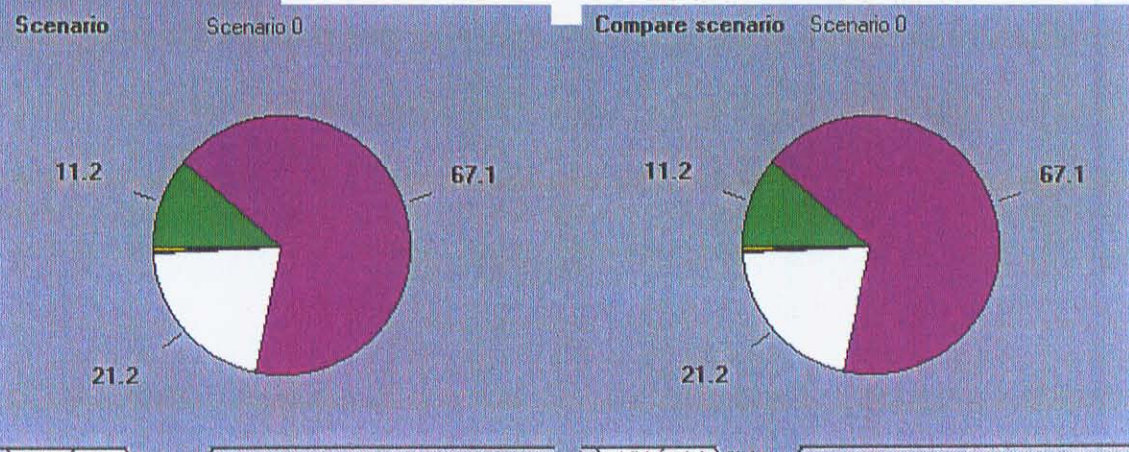
- inhalation indoor air
- inhalation outdoor air
- ingestion soil
- dermal contact soil
- inhalation soil

- ingestion drinking water
- dermal contact shower
- inhalation vapour shower
- ingestion milk
- ingestion meat

- ingestion vegetables
- ingestion surface water
- ingestion suspended matter
- dermal contact surface water
- ingestion fish

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Substance : dioxine OCD **Pie chart RISC Human version 3.0** **Measurement :** Measurement 7
Subsite : Subsite 0 **Substance :** dioxine OCDD



child adult lifelong

 child adult lifelong

<input checked="" type="checkbox"/> inhalation indoor air	<input checked="" type="checkbox"/> ingestion drinking water	<input checked="" type="checkbox"/> ingestion vegetables
<input type="checkbox"/> inhalation outdoor air	<input type="checkbox"/> dermal contact shower	<input type="checkbox"/> ingestion surface water
<input type="checkbox"/> ingestion soil	<input type="checkbox"/> inhalation vapour shower	<input type="checkbox"/> ingestion suspended matter
<input checked="" type="checkbox"/> dermal contact soil	<input type="checkbox"/> ingestion milk	<input type="checkbox"/> dermal contact surface water
<input type="checkbox"/> inhalation soil	<input checked="" type="checkbox"/> ingestion meat	<input type="checkbox"/> ingestion fish

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Pie chart RISC Human version 3.0

Substance : 2,3,7,8 TCD

Measurement : Measurement 8

Subsite : Subsite 0

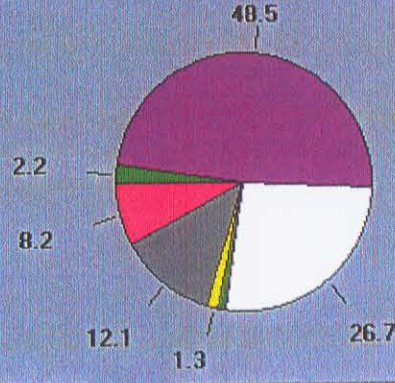
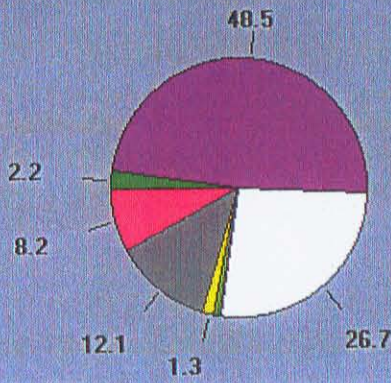
Substance : 2,3,7,8 TCDF

Scenario

Scenario 0

Compare scenario

Scenario 0



child / adult / lifelong

child / adult / lifelong

- inhalation indoor air
- ingestion drinking water
- ingestion vegetables
- inhalation outdoor air
- dermal contact shower
- ingestion surface water
- ingestion soil
- inhalation vapour shower
- ingestion suspended matter
- dermal contact soil
- ingestion milk
- dermal contact surface water
- inhalation soil
- ingestion meat
- ingestion fish

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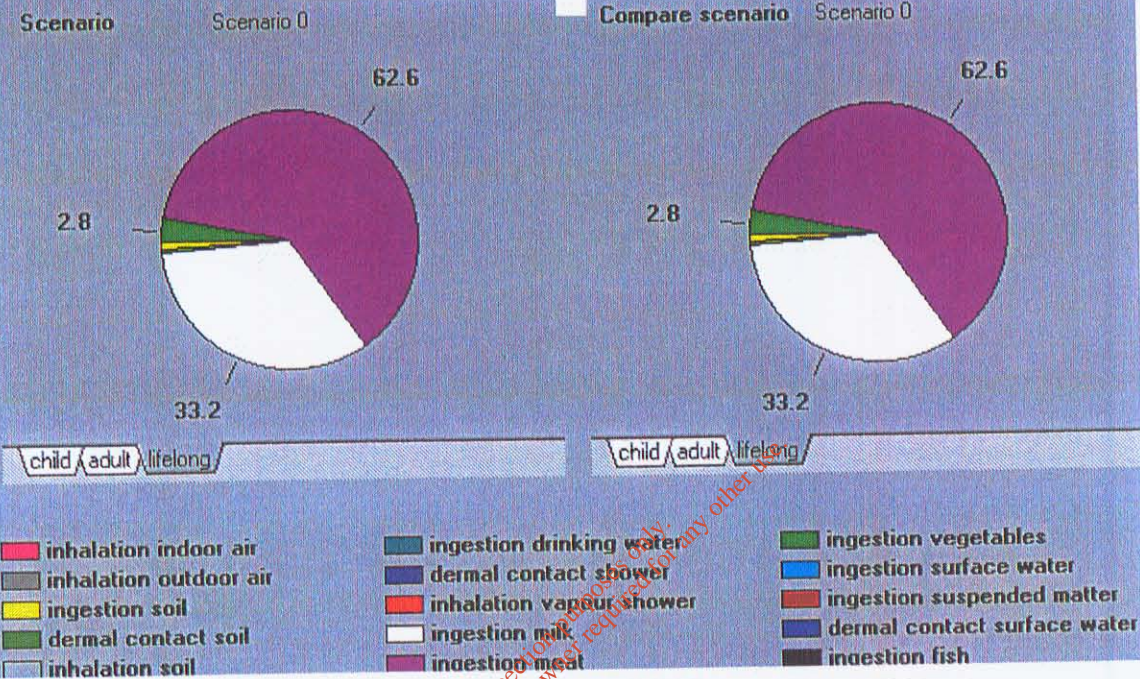
Pie chart RISC Human version 3.0

Substance : 1,2,3,7,8 Pe

Measurement : Measurement 9

Subsite : Subsite 0

Substance : 1,2,3,7,8 PeCDF



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Substance : 1,2,3,4,7,8 F

Pie chart RISC Human version 3.0

Measurement : Measurement 1C

Subsite : Subsite 0

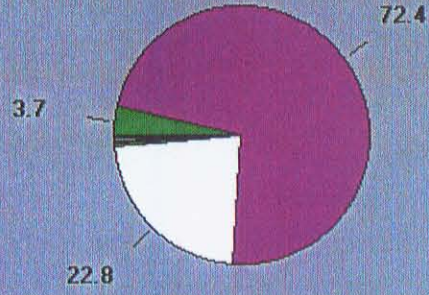
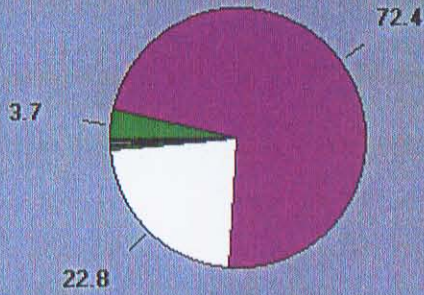
Substance : 1,2,3,4,7,8 HxCl

Scenario

Scenario 0

Compare scenario

Scenario 0



child / adult / lifelong

child / adult / lifelong

- inhalation indoor air
- inhalation outdoor air
- ingestion soil
- dermal contact soil
- inhalation soil
- ingestion drinking water
- dermal contact shower
- inhalation vapour shower
- ingestion milk
- ingestion meat
- ingestion vegetables
- ingestion surface water
- ingestion suspended matter
- dermal contact surface water
- ingestion fish

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Substance : 2,3,4,7,8 Pe

Pie chart RISC Human version 3.0

Measurement : Measurement 11

Subsite : Subsite 0

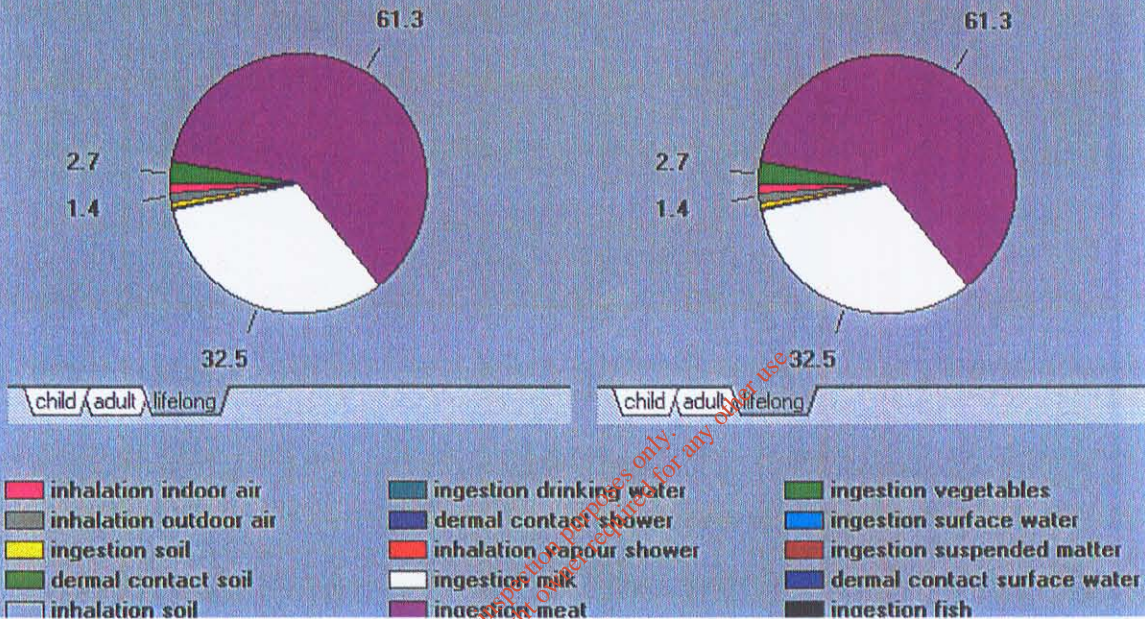
Substance : 2,3,4,7,8 PeCDF

Scenario

Scenario 0

Compare scenario

Scenario 0



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Substance : 2,3,4,7,8 Pe

Pie chart RISC Human version 3.0

Measurement : Measurement 11

Subsite : Subsite 0

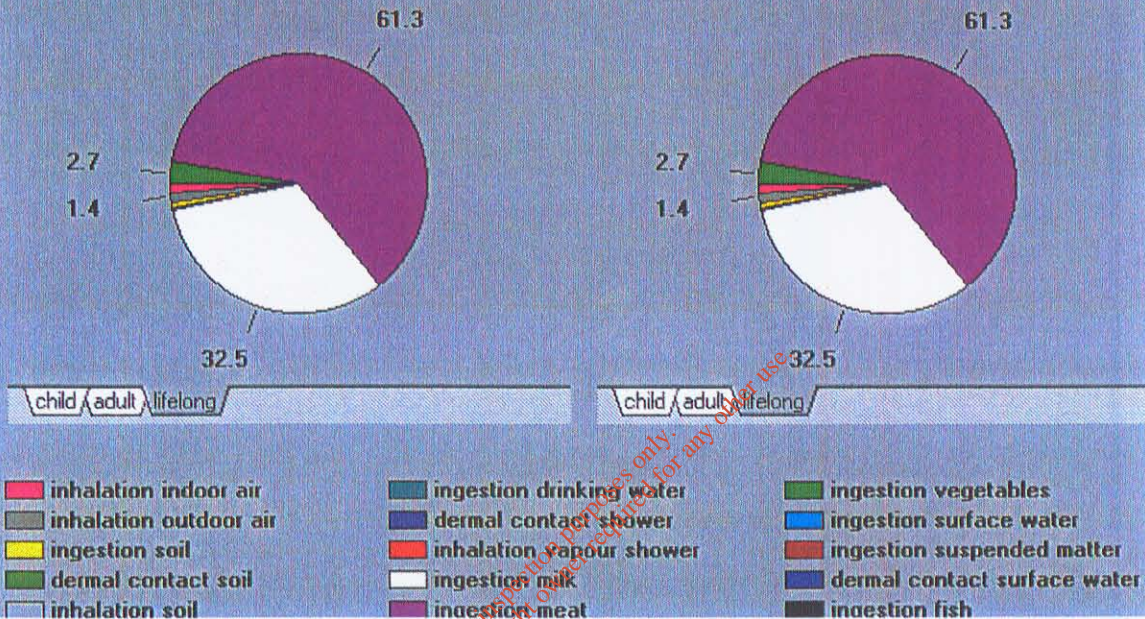
Substance : 2,3,4,7,8 PeCDF

Scenario

Scenario 0

Compare scenario

Scenario 0



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Pie chart RISC Human version 3.0

Substance : 1,2,3,6,7,8 F

Measurement : Measurement 12

Subsite : Subsite 0

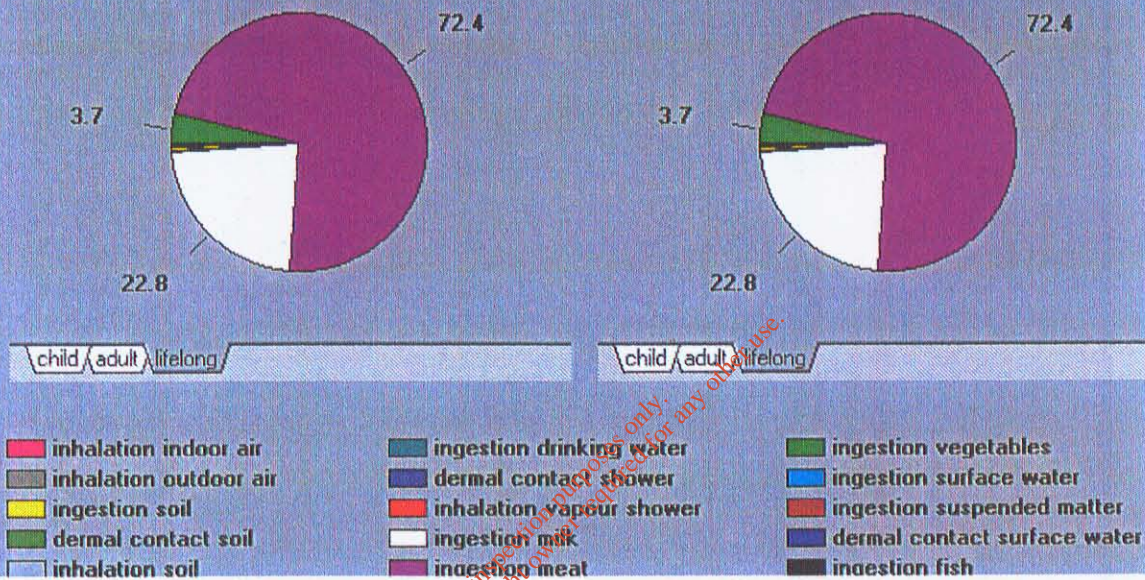
Substance : 1,2,3,6,7,8 HxCCl

Scenario

Scenario 0

Compare scenario

Scenario 0



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Substance : 1,2,3,7,8,9 F

Pie chart RISC Human version 3.0

Measurement : Measurement 13

Subsite : Subsite 0

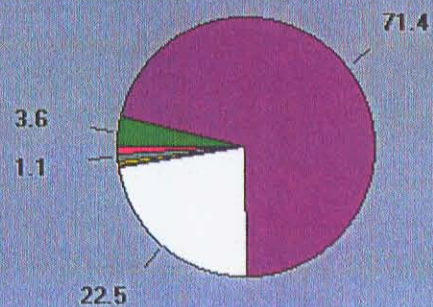
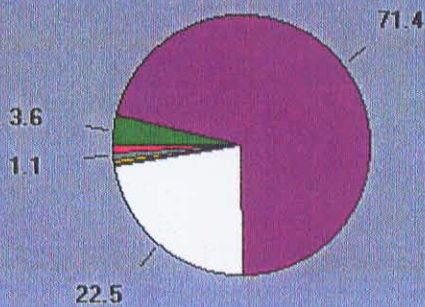
Substance : 1,2,3,7,8,9 HxCI

Scenario

Scenario 0

Compare scenario

Scenario 0



child / adult / lifelong

child / adult / lifelong

- inhalation indoor air
- inhalation outdoor air
- ingestion soil
- dermal contact soil
- inhalation soil

- ingestion drinking water
- dermal contact shower
- inhalation vapour shower
- ingestion milk
- ingestion meat

- ingestion vegetables
- ingestion surface water
- ingestion suspended matter
- dermal contact surface water
- ingestion fish

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Pie chart RISC Human version 3.0

Substance : 2,3,4,6,7,8 f

Measurement : Measurement 14

Subsite : Subsite 0

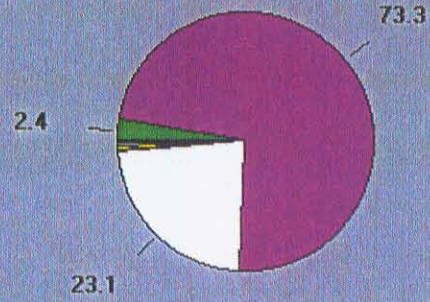
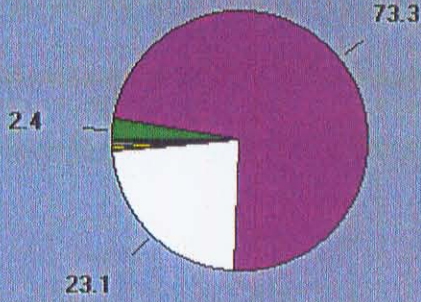
Substance : 2,3,4,6,7,8 Hp C

Scenario

Scenario 0

Compare scenario

Scenario 0



child / adult / lifelong

child / adult / lifelong

- | | | |
|------------------------|--------------------------|------------------------------|
| inhalation indoor air | ingestion drinking water | ingestion vegetables |
| inhalation outdoor air | dermal contact shower | ingestion surface water |
| ingestion soil | inhalation vapour shower | ingestion suspended matter |
| dermal contact soil | ingestion milk | dermal contact surface water |
| inhalation soil | ingestion meat | ingestion fish |

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Pie chart RISC Human version 3.0

Substance : 1,2,3,4,6,7,8

Measurement : Measurement 15

Subsite : Subsite 0

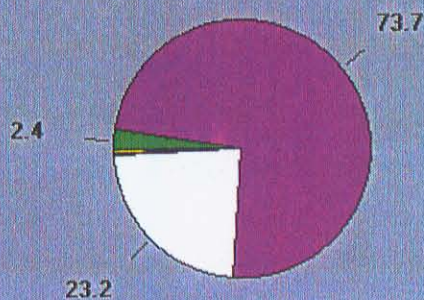
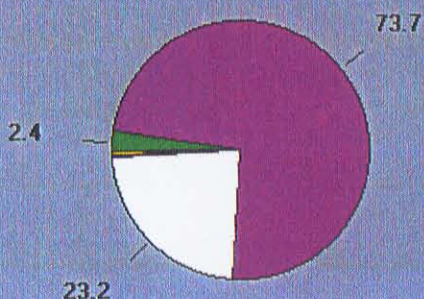
Substance : 1,2,3,4,6,7,8 Hp

Scenario

Scenario 0

Compare scenario

Scenario 0



child / adult / lifelong

child / adult / lifelong

- | | | |
|------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------|
| ■ inhalation indoor air | ■ ingestion drinking water | ■ ingestion vegetables |
| ■ inhalation outdoor air | ■ dermal contact shower | ■ ingestion surface water |
| ■ ingestion soil | ■ inhalation vapour shower | ■ ingestion suspended matter |
| ■ dermal contact soil | ■ ingestion milk | ■ dermal contact surface water |
| ■ inhalation soil | ■ ingestion meat | ■ ingestion fish |

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Pie chart RISC Human version 3.0

Substance : 1,2,3,4,7,8,9

Measurement : Measurement 1E

Subsite : Subsite 0

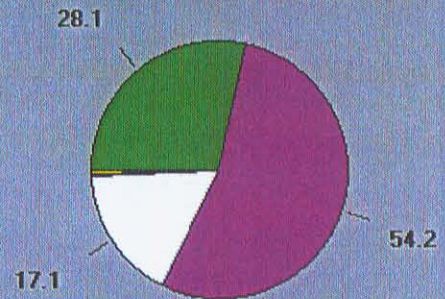
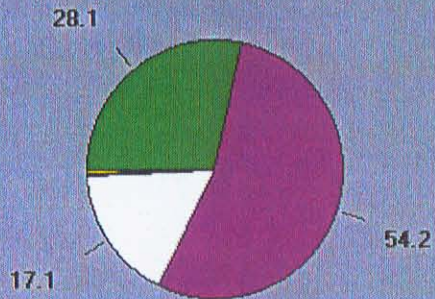
Substance : 1,2,3,4,7,8,9 Hp

Scenario

Scenario 0

Compare scenario

Scenario 0



child / adult / lifelong

child / adult / lifelong

- | | | |
|------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|
| ■ inhalation indoor air | ■ ingestion drinking water | ■ ingestion vegetables |
| ■ inhalation outdoor air | ■ dermal contact shower | ■ ingestion surface water |
| ■ ingestion soil | ■ inhalation vapour shower | ■ ingestion suspended matter |
| ■ dermal contact soil | ■ ingestion milk | ■ dermal contact surface water |
| ■ inhalation soil | ■ ingestion meat | ■ ingestion fish |

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Substance : OCDF

Pie chart RISC Human version 3.0

Measurement : Measurement 17

Subsite : Subsite 0

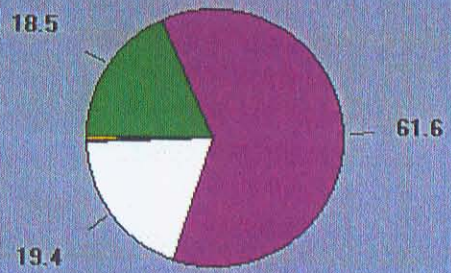
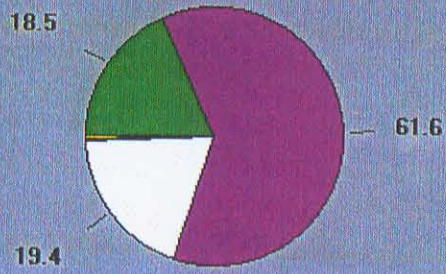
Substance : OCDF

Scenario

Scenario 0

Compare scenario

Scenario 0



child / adult / lifelong

child / adult / lifelong

- | | | |
|-------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|
| <input type="checkbox"/> inhalation indoor air | <input type="checkbox"/> ingestion drinking water | <input type="checkbox"/> ingestion vegetables |
| <input type="checkbox"/> inhalation outdoor air | <input type="checkbox"/> dermal contact shower | <input type="checkbox"/> ingestion surface water |
| <input type="checkbox"/> ingestion soil | <input type="checkbox"/> inhalation vapour shower | <input type="checkbox"/> ingestion suspended matter |
| <input type="checkbox"/> dermal contact soil | <input type="checkbox"/> ingestion milk | <input type="checkbox"/> dermal contact surface water |
| <input type="checkbox"/> inhalation soil | <input type="checkbox"/> ingestion meat | <input type="checkbox"/> ingestion fish |

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Drawing-1

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