

**ATTACHMENT J**  
**MODEL OUTPUT FILE FOR CHANGE IN PCDD/F DOSE**

= Site =

Data from file: FINT2015.LOC

Name: Ringaskiddintake2015

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 milk  
ingestion meat  
ingestion vegetables

Changed parameters on site level:

Organic matter content [OS]

3.50E+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

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

2.00E-01 m

Justification

De Laat et al

Surface roughness [Zo]

1.00E-01 m

Justification

Van Den Bergh 1991  
Fraction fat in meat [ffme]  
4.40E-01 -  
Justification  
Calculated average value  
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 2002/2003  
Daily consumption of tuberous vegetables (adult) [Qvra]  
4.45E-01 kg fw.d-1  
Justification  
dept of agriculture 2002/2003  
Daily consumption of meat (adult) [Qmea]  
2.58E-01 kg.d-1  
Justification  
Dept of Ag 2002/2003  
Daily consumption of milk (adult) [Qmia]  
4.54E-01 l.d-1  
Justification  
Dept of Ag 2002/2003  
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

Subsite: Subsite 0

Selected exposure routes on subsite level:

- inhalation indoor air
- inhalation outdoor air
- ingestion soil
- dermal contact soil
- inhalation soil
- ingestion milk
- ingestion meat
- ingestion vegetables

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				
		8.0	7.0	50.0				

Justification

Assume farmer works 16 hours per day 7 days per week

Time division child:

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---
days off          winter  h/d    d/w    w/y    summer h/d    d/w    w/y
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---
inside dermal                12.0   2.0   25.0                12.0   2.0  25.0
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                12.0   5.0   25.0                4.0   5.0  25.0
outside inhalant            0.0   0.0   0.0                8.0   5.0  25.0
outside dermal              0.0   0.0   0.0                8.0   5.0  25.0

time inside      winter+
sleeping         summer  h/d    d/w    w/y
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---
                12.0   7.0   50.0
-----
---

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Measurements

Code of measurement: Measurement 1  
 Substance: dioxine 2378 TeCDD

Site

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---
Concentration in soil                6.12E-08  mg.kg-1

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Built on area:

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---
Concentration in soil                6.12E-08  mg.kg-1

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Open surface:

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---
Concentration in soil                6.12E-08  mg.kg-1

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Cultivated area:

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---
Concentration in soil                6.12E-08  mg.kg-1

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Sediment:

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Contactmedia:

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Soil parameters:  
Default

Current

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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

Measurements

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

Site

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---

Concentration in soil 8.77E-08 mg.kg-1

Built on area:

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Concentration in soil 8.77E-08 mg.kg-1

Open surface:

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Concentration in soil 8.77E-08 mg.kg-1

Cultivated area:

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Concentration in soil 8.77E-08 mg.kg-1

Sediment:

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Contactmedia:

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Soil parameters:  
Default

Current

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---

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

Measurements

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

Site

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 ---  
 Concentration in soil 2.12E-07 mg.kg-1

Built on area:

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 ---  
 Concentration in soil 2.12E-07 mg.kg-1

Open surface:

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 ---  
 Concentration in soil 2.12E-07 mg.kg-1

Cultivated area:

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 ---  
 Concentration in soil 2.12E-07 mg.kg-1

Sediment:

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Contactmedia:

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Soil parameters:

Current

Default

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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

Measurements

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

Site

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---  
Concentration in soil 1.00E-07 mg.kg-1

Built on area:

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---  
Concentration in soil 1.00E-07 mg.kg-1

Open surface:

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---  
Concentration in soil 1.00E-07 mg.kg-1

Cultivated area:

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Concentration in soil 1.00E-07 mg.kg-1

Sediment:

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Contactmedia:

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Soil parameters:

Current

Default

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---  
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

Measurements

Code of measurement: Measurement 5  
Substance: dioxine 1,2,3,7,8,9

Site



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---  
Concentration in soil 1.52E-07 mg.kg-1

Built on area:

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---  
Concentration in soil 1.52E-07 mg.kg-1

Open surface:

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Concentration in soil 1.52E-07 mg.kg-1

Cultivated area:

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Concentration in soil 1.52E-07 mg.kg-1

Sediment:

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Contactmedia:

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Soil parameters:

Current

Default

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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

Measurements

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

Site

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Concentration in soil 2.30E-06 mg.kg-1

Built on area:

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---  
Concentration in soil 2.30E-06 mg.kg-1

Open surface:

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---  
Concentration in soil 2.30E-06 mg.kg-1

Cultivated area:

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Concentration in soil 2.30E-06 mg.kg-1

Sediment:

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Contactmedia:

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Soil parameters:

Current

Default

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---  
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

Measurements

Code of measurement: Measurement 7

Substance: dioxine OCDD

Site

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---  
Concentration in soil 1.76E-05 mg.kg-1

Built on area:

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---  
Concentration in soil 1.76E-05 mg.kg-1

Open surface:

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---  
Concentration in soil 1.76E-05 mg.kg-1

Cultivated area:

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Concentration in soil 1.76E-05 mg.kg-1

Sediment:

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Contactmedia:

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Soil parameters:

Current

Default

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---

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

Measurements

Code of measurement: Measurement 8

Substance: 2,3,7,8 TCDF

Site

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Concentration in soil 3.32E-07 mg.kg-1

Built on area:

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---

Concentration in soil 3.32E-07 mg.kg-1

Open surface:

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Concentration in soil 3.32E-07 mg.kg-1

Cultivated area:

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Concentration in soil 3.32E-07 mg.kg-1

Sediment:

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Contactmedia:

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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

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

Site	-----	
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Concentration in soil	2.54E-07	mg.kg-1

Built on area:	-----	
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Concentration in soil	2.54E-07	mg.kg-1

Open surface:	-----	
---		
Concentration in soil	2.54E-07	mg.kg-1

Cultivated area:	-----	
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Concentration in soil	2.54E-07	mg.kg-1

Sediment:  
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Contactmedia:  
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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

Measurements

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

Site

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 ---  
 Concentration in soil 4.56E-07 mg.kg-1

Built on area:

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 ---  
 Concentration in soil 4.56E-07 mg.kg-1

Open surface:

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 ---  
 Concentration in soil 4.56E-07 mg.kg-1

Cultivated area:

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 ---  
 Concentration in soil 4.56E-07 mg.kg-1

Sediment:

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Contactmedia:

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Soil parameters:

Current

Default

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 ---  

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

Measurements

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

Site

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---  
Concentration in soil 2.71E-07 mg.kg-1

Built on area:

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---  
Concentration in soil 2.71E-07 mg.kg-1

Open surface:

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---  
Concentration in soil 2.71E-07 mg.kg-1

Cultivated area:

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Concentration in soil 2.71E-07 mg.kg-1

Sediment:

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Contactmedia:

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Soil parameters:

Current

Default

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---  
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

Measurements

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

Site

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---  
Concentration in soil 3.40E-07 mg.kg-1

Built on area:

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Concentration in soil 3.40E-07 mg.kg-1

Open surface:  
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Concentration in soil 3.40E-07 mg.kg-1

Cultivated area:  
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Concentration in soil 3.40E-07 mg.kg-1

Sediment:  
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Contactmedia:  
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Soil parameters: Current

Default

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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

Measurements

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

Site  
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Concentration in soil 1.22E-07 mg.kg-1

Built on area:  
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Concentration in soil 1.22E-07 mg.kg-1

Open surface:  
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Concentration in soil 1.22E-07 mg.kg-1

Cultivated area:

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---  
Concentration in soil 1.22E-07 mg.kg-1

Sediment:

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Contactmedia:

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Soil parameters:

Current

Default

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---  
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

Measurements

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

Site

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---  
Concentration in soil 5.63E-07 mg.kg-1

Built on area:

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---  
Concentration in soil 5.63E-07 mg.kg-1

Open surface:

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---  
Concentration in soil 5.63E-07 mg.kg-1

Cultivated area:

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---  
Concentration in soil 5.63E-07 mg.kg-1

Sediment:

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Contactmedia:

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Soil parameters:  
Default

Current

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---

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

Measurements

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

Site

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---

Concentration in soil 2.37E-06 mg.kg-1

Built on area:

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Concentration in soil 2.37E-06 mg.kg-1

Open surface:

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---

Concentration in soil 2.37E-06 mg.kg-1

Cultivated area:

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Concentration in soil 2.37E-06 mg.kg-1

Sediment:

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Contactmedia:

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Soil parameters:  
Default

Current

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---

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

Measurements

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

Site

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 ---  
 Concentration in soil 2.58E-07 mg.kg-1

Built on area:

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 ---  
 Concentration in soil 2.58E-07 mg.kg-1

Open surface:

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 ---  
 Concentration in soil 2.58E-07 mg.kg-1

Cultivated area:

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 ---  
 Concentration in soil 2.58E-07 mg.kg-1

Sediment:

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Contactmedia:

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Soil parameters:

Current

Default

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 ---  
 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

Measurements

Code of measurement: Measurement 17  
Substance: OCDF

Site

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---  
Concentration in soil 2.27E-06 mg.kg-1

Built on area:

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---  
Concentration in soil 2.27E-06 mg.kg-1

Open surface:

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---  
Concentration in soil 2.27E-06 mg.kg-1

Cultivated area:

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---  
Concentration in soil 2.27E-06 mg.kg-1

Sediment:

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Contactmedia:

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---

Soil parameters:

Current

Default

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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

==== Result ====

Scenario : Scenario 0

Subsite : Subsite 0

= Uptake Table =

Measurement : Measurement 1

Substance : dioxine 2378 TeCDD

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

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Exposure route	Child	Adult	Lifelong
inhalation indoor air	9.76E-17	2.39E-17	3.03E-17
inhalation outdoor air	1.21E-17	3.82E-17	3.60E-17
ingestion soil	6.12E-13	5.10E-14	9.91E-14
dermal contact soil	2.62E-14	7.80E-14	7.36E-14
inhalation soil	9.67E-16	5.69E-16	6.03E-16
ingestion milk	2.14E-11	4.85E-12	6.27E-12
ingestion meat	3.68E-11	1.82E-11	1.98E-11
ingestion vegetables	1.28E-11	6.39E-12	6.94E-12
Total exposure	7.16E-11	2.96E-11	3.32E-11

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= Uptake Table =

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

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

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Exposure route	Child	Adult	Lifelong
inhalation indoor air	3.45E-17	8.46E-18	1.07E-17
inhalation outdoor air	4.28E-18	1.35E-17	1.27E-17
ingestion soil	8.77E-13	7.31E-14	1.42E-13
dermal contact soil	3.76E-14	1.12E-13	1.05E-13
inhalation soil	1.39E-15	8.15E-16	8.64E-16
ingestion milk	3.06E-11	6.94E-12	8.96E-12
ingestion meat	8.74E-11	4.34E-11	4.71E-11
ingestion vegetables	5.69E-11	2.84E-11	3.09E-11
Total exposure	1.76E-10	7.89E-11	8.72E-11

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= Uptake Table =

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

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

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Exposure route	Child	Adult	Lifelong
inhalation indoor air	2.92E-17	7.16E-18	9.05E-18
inhalation outdoor air	3.62E-18	1.14E-17	1.08E-17
ingestion soil	2.12E-12	1.77E-13	3.43E-13
dermal contact soil	9.08E-14	2.70E-13	2.55E-13
inhalation soil	3.35E-15	1.97E-15	2.09E-15
ingestion milk	7.39E-11	1.68E-11	2.17E-11
ingestion meat	2.11E-10	1.05E-10	1.14E-10
ingestion vegetables	5.33E-11	2.66E-11	2.89E-11
Total exposure	3.41E-10	1.49E-10	1.65E-10

= Uptake Table =

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

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

Exposure route	Child	Adult	Lifelong
inhalation indoor air	1.38E-17	3.38E-18	4.27E-18
inhalation outdoor air	1.71E-18	5.39E-18	5.08E-18
ingestion soil	1.00E-12	8.33E-14	1.62E-13
dermal contact soil	4.28E-14	1.28E-13	1.20E-13
inhalation soil	1.58E-15	9.30E-16	9.85E-16
ingestion milk	3.48E-11	7.91E-12	1.02E-11
ingestion meat	9.97E-11	4.95E-11	5.38E-11
ingestion vegetables	2.51E-11	1.25E-11	1.36E-11
Total exposure	1.61E-10	7.01E-11	7.79E-11

= Uptake Table =

Measurement : Measurement 5  
 Substance : dioxine 1,2,3,7,8,9

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

Exposure route	Child	Adult	Lifelong
inhalation indoor air	2.05E-17	5.02E-18	6.35E-18
inhalation outdoor air	2.54E-18	8.02E-18	7.55E-18

ingestion soil	1.52E-12	1.27E-13	2.46E-13
dermal contact soil	6.51E-14	1.94E-13	1.83E-13
inhalation soil	2.40E-15	1.41E-15	1.50E-15
ingestion milk	5.30E-11	1.20E-11	1.55E-11
ingestion meat	1.51E-10	7.52E-11	8.17E-11
ingestion vegetables	3.82E-11	1.91E-11	2.07E-11

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Total exposure	2.44E-10	1.07E-10	1.18E-10
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= Uptake Table =

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

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

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Exposure route	Child	Adult	Lifelong
inhalation indoor air	3.96E-17	9.73E-18	1.23E-17
inhalation outdoor air	4.92E-18	1.55E-17	1.46E-17
ingestion soil	2.30E-11	1.92E-12	3.72E-12
dermal contact soil	9.86E-13	2.93E-12	2.77E-12
inhalation soil	3.64E-14	2.14E-14	2.27E-14
ingestion milk	8.02E-10	1.82E-10	2.35E-10
ingestion meat	2.29E-09	1.14E-09	1.24E-09
ingestion vegetables	1.65E-10	8.22E-11	8.92E-11

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Total exposure	3.28E-09	1.41E-09	1.57E-09
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= Uptake Table =

Measurement : Measurement 7  
 Substance : dioxine OCDD

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

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Exposure route	Child	Adult	Lifelong
inhalation indoor air	5.55E-16	1.36E-16	1.72E-16
inhalation outdoor air	6.88E-17	2.17E-16	2.05E-16
ingestion soil	1.76E-10	1.47E-11	2.85E-11
dermal contact soil	7.54E-12	2.24E-11	2.12E-11
inhalation soil	2.78E-13	1.64E-13	1.73E-13
ingestion milk	6.13E-09	1.39E-09	1.80E-09
ingestion meat	1.75E-08	8.70E-09	9.46E-09

ingestion vegetables	1.76E-09	8.76E-10	9.51E-10
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Total exposure	2.56E-08	1.10E-08	1.23E-08
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= Uptake Table =

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

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

Exposure route	Child	Adult	Lifelong
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inhalation indoor air	1.40E-17	3.44E-18	4.34E-18
inhalation outdoor air	1.74E-18	5.48E-18	5.16E-18
ingestion soil	3.32E-12	2.77E-13	5.38E-13
dermal contact soil	1.42E-13	4.23E-13	3.99E-13
inhalation soil	5.25E-15	3.09E-15	3.27E-15
ingestion milk	3.89E-11	8.83E-12	1.14E-11
ingestion meat	3.77E-11	1.87E-11	2.03E-11
ingestion vegetables	1.67E-12	8.32E-13	9.04E-13

Total exposure	8.17E-11	2.90E-11	3.36E-11
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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
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inhalation indoor air	1.96E-17	4.80E-18	6.07E-18
inhalation outdoor air	2.43E-18	7.66E-18	7.21E-18
ingestion soil	2.54E-12	2.12E-13	4.11E-13
dermal contact soil	1.09E-13	3.24E-13	3.05E-13
inhalation soil	4.02E-15	2.36E-15	2.50E-15
ingestion milk	7.42E-11	1.68E-11	2.18E-11
ingestion meat	7.46E-11	3.70E-11	4.02E-11
ingestion vegetables	3.22E-12	1.61E-12	1.75E-12

Total exposure	1.55E-10	5.60E-11	6.44E-11
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= Uptake Table =

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

Exposure per route (mg/(kg.d))  
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Exposure route	Child	Adult	Lifelong
inhalation indoor air	1.84E-17	4.53E-18	5.72E-18
inhalation outdoor air	2.29E-18	7.22E-18	6.80E-18
ingestion soil	4.56E-12	3.80E-13	7.38E-13
dermal contact soil	1.95E-13	5.81E-13	5.48E-13
inhalation soil	7.21E-15	4.24E-15	4.49E-15
ingestion milk	1.59E-10	3.61E-11	4.66E-11
ingestion meat	4.40E-10	2.18E-10	2.37E-10
ingestion vegetables	1.40E-11	6.96E-12	7.56E-12
Total exposure	6.17E-10	2.62E-10	2.93E-10

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= Uptake Table =

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

Exposure per route (mg/(kg.d))  
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Exposure route	Child	Adult	Lifelong
inhalation indoor air	7.69E-19	1.89E-19	2.39E-19
inhalation outdoor air	9.54E-20	3.01E-19	2.84E-19
ingestion soil	2.71E-12	2.26E-13	4.39E-13
dermal contact soil	1.16E-13	3.46E-13	3.26E-13
inhalation soil	4.28E-15	2.52E-15	2.67E-15
ingestion milk	7.91E-11	1.80E-11	2.32E-11
ingestion meat	7.96E-11	3.95E-11	4.29E-11
ingestion vegetables	3.44E-12	1.71E-12	1.86E-12
Total exposure	1.65E-10	5.97E-11	6.88E-11

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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	Child	Adult	Lifelong
inhalation indoor air	1.38E-17	3.37E-18	4.26E-18
inhalation outdoor air	1.71E-18	5.38E-18	5.07E-18
ingestion soil	3.40E-12	2.83E-13	5.50E-13
dermal contact soil	1.46E-13	4.34E-13	4.09E-13
inhalation soil	5.37E-15	3.16E-15	3.35E-15
ingestion milk	1.19E-10	2.69E-11	3.48E-11
ingestion meat	3.28E-10	1.63E-10	1.77E-10
ingestion vegetables	1.04E-11	5.19E-12	5.64E-12
Total exposure	4.60E-10	1.96E-10	2.18E-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	4.94E-18	1.21E-18	1.53E-18
inhalation outdoor air	6.12E-19	1.93E-18	1.82E-18
ingestion soil	1.22E-12	1.02E-13	1.98E-13
dermal contact soil	5.23E-14	1.56E-13	1.47E-13
inhalation soil	1.93E-15	1.13E-15	1.20E-15
ingestion milk	4.25E-11	9.65E-12	1.25E-11
ingestion meat	1.18E-10	5.84E-11	6.35E-11
ingestion vegetables	3.73E-12	1.86E-12	2.02E-12
Total exposure	1.65E-10	7.02E-11	7.83E-11

= Uptake Table =

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

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

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Exposure route                Child          Adult          Lifelong
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inhalation indoor air        2.58E-17      6.33E-18      7.99E-18
inhalation outdoor air      3.20E-18      1.01E-17      9.50E-18
ingestion soil               5.63E-12      4.69E-13      9.12E-13
dermal contact soil         2.41E-13      7.18E-13      6.77E-13
inhalation soil              8.90E-15      5.23E-15      5.55E-15
ingestion milk               1.96E-10      4.45E-11      5.75E-11
ingestion meat               5.61E-10      2.78E-10      3.03E-10
ingestion vegetables         1.11E-11      5.54E-12      6.01E-12
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Total exposure                7.74E-10      3.30E-10      3.68E-10
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= Uptake Table =

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

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

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Exposure route                Child          Adult          Lifelong
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inhalation indoor air        1.09E-16      2.66E-17      3.37E-17
inhalation outdoor air      1.35E-17      4.25E-17      4.00E-17
ingestion soil               2.37E-11      1.98E-12      3.84E-12
dermal contact soil         1.02E-12      3.02E-12      2.85E-12
inhalation soil              3.75E-14      2.20E-14      2.34E-14
ingestion milk               8.26E-10      1.87E-10      2.42E-10
ingestion meat               2.36E-09      1.17E-09      1.27E-09
ingestion vegetables         4.67E-11      2.33E-11      2.53E-11
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Total exposure                3.26E-09      1.39E-09      1.55E-09
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= Uptake Table =

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

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

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Exposure route                Child          Adult          Lifelong
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inhalation indoor air	1.45E-15	3.57E-16	4.51E-16
inhalation outdoor air	1.80E-16	5.69E-16	5.36E-16
ingestion soil	2.58E-12	2.15E-13	4.18E-13
dermal contact soil	1.11E-13	3.29E-13	3.10E-13
inhalation soil	4.08E-15	2.40E-15	2.54E-15
ingestion milk	8.99E-11	2.04E-11	2.64E-11
ingestion meat	2.57E-10	1.28E-10	1.39E-10
ingestion vegetables	8.02E-11	4.00E-11	4.35E-11

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Total exposure	4.30E-10	1.89E-10	2.09E-10
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= Uptake Table =

Measurement : Measurement 17  
 Substance : OCDF

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

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Exposure route	Child	Adult	Lifelong
inhalation indoor air	6.87E-17	1.69E-17	2.13E-17
inhalation outdoor air	8.52E-18	2.69E-17	2.53E-17
ingestion soil	2.27E-11	1.89E-12	3.68E-12
dermal contact soil	9.73E-13	2.89E-12	2.73E-12
inhalation soil	3.59E-14	2.11E-14	2.24E-14
ingestion milk	7.91E-10	1.80E-10	2.32E-10
ingestion meat	2.26E-09	1.12E-09	1.22E-09
ingestion vegetables	4.08E-10	2.04E-10	2.21E-10

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Total exposure	3.49E-09	1.51E-09	1.68E-09
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= Risk Table =

Maximum Permissible Risk level

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Measurement	Substance	Dose (mg/(kg.d))	RfD (mg/(kg.d))	Dose/RfD
Measurement 1	dioxine 2378 TeCDD	3.32E-11	1.00E-08	3.32E-03
Measurement 2	dioxine 1,2,3,7,8-PeCDD	8.72E-11	0.00E+00	-
Measurement 3	dioxine 1,2,3,6,7,8	1.65E-10	0.00E+00	-
Measurement 4	dioxine 1,2,3,4,7,8	7.79E-11	0.00E+00	-
Measurement 5	dioxine 1,2,3,7,8,9	1.18E-10	0.00E+00	-
Measurement 6	dioxine 1,2,3,4,6,7,8	1.57E-09	0.00E+00	-
Measurement 7	dioxine OCDD	1.23E-08	1.00E-08	1.23E+00

Measurement 8	2,3,7,8 TCDF	3.36E-11	0.00E+00	-
Measurement 9	1,2,3,7,8 PeCDF	6.44E-11	0.00E+00	-
Measurement 10	1,2,3,4,7,8 HxCDF	2.93E-10	0.00E+00	-
Measurement 11	2,3,4,7,8 PeCDF	6.88E-11	0.00E+00	-
Measurement 12	1,2,3,6,7,8 HxCDF	2.18E-10	0.00E+00	-
Measurement 13	1,2,3,7,8,9 HxCDF	7.83E-11	0.00E+00	-
Measurement 14	2,3,4,6,7,8 Hp CDF	3.68E-10	0.00E+00	-
Measurement 15	1,2,3,4,6,7,8 HpCDF	1.55E-09	0.00E+00	-
Measurement 16	1,2,3,4,7,8,9 HpCDF	2.09E-10	0.00E+00	-
Measurement 17	OCDF	1.68E-09	0.00E+00	-

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RfD = Reference Dose

Indoor concentration in air

Measurement	Substance	Cia (µg/m3)	TCA (µg/m3)	Cia/TCA
Measurement 1	dioxine 2378 TeCDD	2.16E-13	0.00E+00	-
Measurement 2	dioxine 1,2,3,7,8-PeCDD	7.65E-14	0.00E+00	-
Measurement 3	dioxine 1,2,3,6,7,8	6.47E-14	0.00E+00	-
Measurement 4	dioxine 1,2,3,4,7,8	3.05E-14	0.00E+00	-
Measurement 5	dioxine 1,2,3,7,8,9	4.54E-14	0.00E+00	-
Measurement 6	dioxine 1,2,3,4,6,7,8	8.79E-14	0.00E+00	-
Measurement 7	dioxine OCDD	1.23E-12	0.00E+00	-
Measurement 8	2,3,7,8 TCDF	3.11E-14	0.00E+00	-
Measurement 9	1,2,3,7,8 PeCDF	4.34E-14	0.00E+00	-
Measurement 10	1,2,3,4,7,8 HxCDF	4.09E-14	0.00E+00	-
Measurement 11	2,3,4,7,8 PeCDF	1.71E-15	0.00E+00	-
Measurement 12	1,2,3,6,7,8 HxCDF	3.05E-14	0.00E+00	-
Measurement 13	1,2,3,7,8,9 HxCDF	1.09E-14	0.00E+00	-
Measurement 14	2,3,4,6,7,8 Hp CDF	5.72E-14	0.00E+00	-
Measurement 15	1,2,3,4,6,7,8 HpCDF	2.41E-13	0.00E+00	-
Measurement 16	1,2,3,4,7,8,9 HpCDF	3.22E-12	0.00E+00	-
Measurement 17	OCDF	1.52E-13	0.00E+00	-

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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	1.98E-13	0.00E+00	-
Measurement 2	dioxine 1,2,3,7,8-PeCDD	7.02E-14	0.00E+00	-
Measurement 3	dioxine 1,2,3,6,7,8	5.94E-14	0.00E+00	-
Measurement 4	dioxine 1,2,3,4,7,8	2.80E-14	0.00E+00	-
Measurement 5	dioxine 1,2,3,7,8,9	4.17E-14	0.00E+00	-
Measurement 6	dioxine 1,2,3,4,6,7,8	8.06E-14	0.00E+00	-
Measurement 7	dioxine OCDD	1.13E-12	0.00E+00	-
Measurement 8	2,3,7,8 TCDF	2.85E-14	0.00E+00	-

Measurement 9	1,2,3,7,8 PeCDF	3.98E-14	0.00E+00	-
Measurement 10	1,2,3,4,7,8 HxCDF	3.75E-14	0.00E+00	-
Measurement 11	2,3,4,7,8 PeCDF	1.57E-15	0.00E+00	-
Measurement 12	1,2,3,6,7,8 HxCDF	2.80E-14	0.00E+00	-
Measurement 13	1,2,3,7,8,9 HxCDF	1.00E-14	0.00E+00	-
Measurement 14	2,3,4,6,7,8 Hp CDF	5.24E-14	0.00E+00	-
Measurement 15	1,2,3,4,6,7,8 HpCDF	2.21E-13	0.00E+00	-
Measurement 16	1,2,3,4,7,8,9 HpCDF	2.96E-12	0.00E+00	-
Measurement 17	OCDF	1.40E-13	0.00E+00	-

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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	-	0.00E+00	-
Measurement 2	dioxine 1,2,3,7,8-PeCDD	-	0.00E+00	-
Measurement 3	dioxine 1,2,3,6,7,8	-	0.00E+00	-
Measurement 4	dioxine 1,2,3,4,7,8	-	0.00E+00	-
Measurement 5	dioxine 1,2,3,7,8,9	-	0.00E+00	-
Measurement 6	dioxine 1,2,3,4,6,7,8	-	0.00E+00	-
Measurement 7	dioxine OCDD	-	0.00E+00	-
Measurement 8	2,3,7,8 TCDF	-	0.00E+00	-
Measurement 9	1,2,3,7,8 PeCDF	-	0.00E+00	-
Measurement 10	1,2,3,4,7,8 HxCDF	-	0.00E+00	-
Measurement 11	2,3,4,7,8 PeCDF	-	0.00E+00	-
Measurement 12	1,2,3,6,7,8 HxCDF	-	0.00E+00	-
Measurement 13	1,2,3,7,8,9 HxCDF	-	0.00E+00	-
Measurement 14	2,3,4,6,7,8 Hp CDF	-	0.00E+00	-
Measurement 15	1,2,3,4,6,7,8 HpCDF	-	0.00E+00	-
Measurement 16	1,2,3,4,7,8,9 HpCDF	-	0.00E+00	-
Measurement 17	OCDF	-	0.00E+00	-

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Cdw = Concentration in drinking water

Background

Measurement Background (mg/ (kg.d) )	Substance	Dose (mg/ (kg.d) )	
Measurement 1	dioxine 2378 TeCDD	3.32E-11	0.00E+00
Measurement 2	dioxine 1,2,3,7,8-PeCDD	8.72E-11	0.00E+00
Measurement 3	dioxine 1,2,3,6,7,8	1.65E-10	0.00E+00
Measurement 4	dioxine 1,2,3,4,7,8	7.79E-11	0.00E+00
Measurement 5	dioxine 1,2,3,7,8,9	1.18E-10	0.00E+00
Measurement 6	dioxine 1,2,3,4,6,7,8	1.57E-09	0.00E+00
Measurement 7	dioxine OCDD	1.23E-08	0.00E+00
Measurement 8	2,3,7,8 TCDF	3.36E-11	0.00E+00

Measurement 9	1,2,3,7,8 PeCDF	6.44E-11	0.00E+00
Measurement 10	1,2,3,4,7,8 HxCDF	2.93E-10	0.00E+00
Measurement 11	2,3,4,7,8 PeCDF	6.88E-11	0.00E+00
Measurement 12	1,2,3,6,7,8 HxCDF	2.18E-10	0.00E+00
Measurement 13	1,2,3,7,8,9 HxCDF	7.83E-11	0.00E+00
Measurement 14	2,3,4,6,7,8 Hp CDF	3.68E-10	0.00E+00
Measurement 15	1,2,3,4,6,7,8 HpCDF	1.55E-09	0.00E+00
Measurement 16	1,2,3,4,7,8,9 HpCDF	2.09E-10	0.00E+00
Measurement 17	OCDF	1.68E-09	0.00E+00

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Substance : dioxine 2378 TeCDD

Physical-chemical parameters

Moleculair 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
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Substance : dioxine OCDD

Physical-chemical parameters

Moleculair 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

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)	0.00E+00	-	
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

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

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)	-	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 1,2,3,7,8,9

Based on : none [organic - user defined]

Description

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

Physical-chemical parameters

Moleculair 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	
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

Molecular 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

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+02	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)	-	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 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)	-	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 : 2,3,4,7,8 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	dm <sup>3</sup> .kg <sup>-1</sup>	
BCF(root)	-	-	calculated
BCF(stem)	-	-	calculated
D(pe)	0.00E+00	m <sup>2</sup> .d <sup>-1</sup>	
Diffusion coefficient (air)	-	m <sup>2</sup> .h <sup>-1</sup>	calculated
Diffusion coefficient(water)	-	m <sup>2</sup> .h <sup>-1</sup>	calculated
DAR(adult)	5.00E-03	h <sup>-1</sup>	
DAR(child)	1.00E-02	h <sup>-1</sup>	
fexcr	0.00E+00	-	
pKa	-	-	calculated

Justification  
As above

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

Justification

Background dose			
Background concentration	0.00E+00	µg.m <sup>-3</sup>	

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

Molecular weight	3.75E+02	g.mol <sup>-1</sup>	
Water solubility	1.77E-04	mg.l <sup>-1</sup>	
Vapour pressure	3.50E-08	Pa	
Klw	3.15E-04	-	
Log Kow	7.00E+00	-	
Log Koc	7.40E+00	dm <sup>3</sup> .kg <sup>-1</sup>	
Kd	0.00E+00	dm <sup>3</sup> .kg <sup>-1</sup>	
BCF(root)	-	-	calculated
BCF(stem)	-	-	calculated
D(pe)	0.00E+00	m <sup>2</sup> .d <sup>-1</sup>	
Diffusion coefficient (air)	-	m <sup>2</sup> .h <sup>-1</sup>	calculated
Diffusion coefficient(water)	-	m <sup>2</sup> .h <sup>-1</sup>	calculated
DAR(adult)	5.00E-03	h <sup>-1</sup>	
DAR(child)	1.00E-02	h <sup>-1</sup>	
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 : 1,2,3,6,7,8 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
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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	
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)	-	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 : 1,2,3,4,7,8,9 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)	-	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 : 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
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Justification