

**ATTACHMENT D**  
**BASELINE INTAKE MODEL REPORT**

= Site =

Data from file: FBAS2015.LOC  
Name: Ringaskidd baseline2015  
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 :

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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		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
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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				
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Justification

Assume farmer works 16 hours per day 7 days per week

Time division child:

days off	winter	h/d	d/w	w/y	summer	h/d	d/w	w/y
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 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	6.10E-08	mg.kg-1
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Built on area:

Concentration in soil	6.10E-08	mg.kg-1
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Open surface:

Concentration in soil	6.10E-08	mg.kg-1
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Cultivated area:

Concentration in soil	6.10E-08	mg.kg-1
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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 2

Substance:

dioxine 1,2,3,7,8-PeCDD

Site

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Concentration in soil 8.50E-08 mg.kg-1

Built on area:

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Concentration in soil 8.50E-08 mg.kg-1

Open surface:

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Concentration in soil 8.50E-08 mg.kg-1

Cultivated area:

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Concentration in soil 8.50E-08 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
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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 3  
 Substance: dioxine 1,2,3,6,7,8

Site

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 Concentration in soil 2.00E-07 mg.kg-1

Built on area:

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 Concentration in soil 2.00E-07 mg.kg-1

Open surface:

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 ---  
 Concentration in soil 2.00E-07 mg.kg-1

Cultivated area:

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 Concentration in soil 2.00E-07 mg.kg-1

Sediment:

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

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 9.40E-08 mg.kg-1

Built on area:

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Concentration in soil 9.40E-08 mg.kg-1

Open surface:

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Concentration in soil 9.40E-08 mg.kg-1

Cultivated area:

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Concentration in soil 9.40E-08 mg.kg-1

Sediment:

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Contactmedia:

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Soil parameters:

Current

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

Measurements

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

Site

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Concentration in soil 1.30E-07 mg.kg-1

Built on area:

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Concentration in soil 1.30E-07 mg.kg-1

Open surface:

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Concentration in soil 1.30E-07 mg.kg-1

Cultivated area:

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Concentration in soil 1.30E-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 2.20E-06 mg.kg-1

Built on area:

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Concentration in soil 2.20E-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 8

Substance: 2,3,7,8 TCDF

Site

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Concentration in soil 3.30E-07 mg.kg-1

Built on area:

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Concentration in soil 3.30E-07 mg.kg-1

Open surface:

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Concentration in soil 3.30E-07 mg.kg-1

Cultivated area:

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Concentration in soil 3.30E-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		
Concentration in soil	2.40E-07	mg.kg-1

Built on area:		
Concentration in soil	2.40E-07	mg.kg-1

Open surface:		
Concentration in soil	2.40E-07	mg.kg-1

Cultivated area:		
Concentration in soil	2.40E-07	mg.kg-1

Sediment:

Contactmedia:

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 3.90E-07 mg.kg-1

Built on area:

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 Concentration in soil 3.90E-07 mg.kg-1

Open surface:

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 Concentration in soil 3.90E-07 mg.kg-1

Cultivated area:

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 Concentration in soil 3.90E-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





Cultivated area:

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Concentration in soil 1.03E-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 4.20E-07 mg.kg-1

Built on area:

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Concentration in soil 4.20E-07 mg.kg-1

Open surface:

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Concentration in soil 4.20E-07 mg.kg-1

Cultivated area:

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Concentration in soil 4.20E-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 15

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

Site

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Concentration in soil 2.20E-06 mg.kg-1

Built on area:

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Concentration in soil 2.20E-06 mg.kg-1

Open surface:

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Concentration in soil 2.20E-06 mg.kg-1

Cultivated area:

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Concentration in soil 2.20E-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
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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 2.40E-07 mg.kg-1

Built on area:

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 Concentration in soil 2.40E-07 mg.kg-1

Open surface:

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 ---  
 Concentration in soil 2.40E-07 mg.kg-1

Cultivated area:

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 Concentration in soil 2.40E-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 17  
Substance: OCDF

Site

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---  
Concentration in soil 1.90E-06 mg.kg-1

Built on area:

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Concentration in soil 1.90E-06 mg.kg-1

Open surface:

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Concentration in soil 1.90E-06 mg.kg-1

Cultivated area:

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Concentration in soil 1.90E-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	9.73E-17	2.39E-17	3.02E-17
inhalation outdoor air	1.21E-17	3.81E-17	3.58E-17
ingestion soil	6.10E-13	5.08E-14	9.88E-14
dermal contact soil	2.61E-14	7.78E-14	7.33E-14
inhalation soil	9.64E-16	5.67E-16	6.01E-16
ingestion milk	2.13E-11	4.84E-12	6.25E-12
ingestion meat	3.66E-11	1.82E-11	1.98E-11
ingestion vegetables	1.28E-11	6.37E-12	6.92E-12

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Total exposure	7.13E-11	2.95E-11	3.31E-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	3.34E-17	8.20E-18	1.04E-17
inhalation outdoor air	4.15E-18	1.31E-17	1.23E-17
ingestion soil	8.50E-13	7.08E-14	1.38E-13
dermal contact soil	3.64E-14	1.08E-13	1.02E-13
inhalation soil	1.34E-15	7.90E-16	8.38E-16
ingestion milk	2.96E-11	6.72E-12	8.69E-12
ingestion meat	8.47E-11	4.20E-11	4.57E-11
ingestion vegetables	5.52E-11	2.75E-11	2.99E-11

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Total exposure	1.70E-10	7.65E-11	8.45E-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	2.75E-17	6.76E-18	8.54E-18
inhalation outdoor air	3.42E-18	1.08E-17	1.02E-17
ingestion soil	2.00E-12	1.67E-13	3.24E-13
dermal contact soil	8.57E-14	2.55E-13	2.40E-13
inhalation soil	3.16E-15	1.86E-15	1.97E-15
ingestion milk	6.97E-11	1.58E-11	2.04E-11
ingestion meat	1.99E-10	9.89E-11	1.08E-10
ingestion vegetables	5.03E-11	2.51E-11	2.73E-11
Total exposure	3.21E-10	1.40E-10	1.56E-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	1.29E-17	3.18E-18	4.01E-18
inhalation outdoor air	1.61E-18	5.07E-18	4.77E-18
ingestion soil	9.40E-13	7.83E-14	1.52E-13
dermal contact soil	4.03E-14	1.20E-13	1.13E-13
inhalation soil	1.49E-15	8.74E-16	9.26E-16
ingestion milk	3.28E-11	7.44E-12	9.61E-12
ingestion meat	9.37E-11	4.65E-11	5.05E-11
ingestion vegetables	2.36E-11	1.18E-11	1.28E-11
Total exposure	1.51E-10	6.59E-11	7.32E-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	1.75E-17	4.30E-18	5.43E-18
inhalation outdoor air	2.17E-18	6.86E-18	6.45E-18



ingestion vegetables	1.70E-09	8.46E-10	9.19E-10
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Total exposure	2.48E-08	1.06E-08	1.18E-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	1.39E-17	3.42E-18	4.32E-18
inhalation outdoor air	1.73E-18	5.45E-18	5.13E-18
ingestion soil	3.30E-12	2.75E-13	5.34E-13
dermal contact soil	1.41E-13	4.21E-13	3.97E-13
inhalation soil	5.22E-15	3.07E-15	3.25E-15
ingestion milk	3.87E-11	8.77E-12	1.13E-11
ingestion meat	3.74E-11	1.86E-11	2.02E-11
ingestion vegetables	1.66E-12	8.27E-13	8.98E-13

Total exposure	8.12E-11	2.89E-11	3.34E-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	1.85E-17	4.54E-18	5.73E-18
inhalation outdoor air	2.29E-18	7.24E-18	6.82E-18
ingestion soil	2.40E-12	2.00E-13	3.89E-13
dermal contact soil	1.03E-13	3.06E-13	2.89E-13
inhalation soil	3.79E-15	2.23E-15	2.37E-15
ingestion milk	7.01E-11	1.59E-11	2.06E-11
ingestion meat	7.05E-11	3.50E-11	3.80E-11
ingestion vegetables	3.04E-12	1.52E-12	1.65E-12

Total exposure	1.46E-10	5.29E-11	6.09E-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	1.58E-17	3.87E-18	4.89E-18
inhalation outdoor air	1.96E-18	6.18E-18	5.81E-18
ingestion soil	3.90E-12	3.25E-13	6.31E-13
dermal contact soil	1.67E-13	4.97E-13	4.69E-13
inhalation soil	6.17E-15	3.63E-15	3.84E-15
ingestion milk	1.36E-10	3.09E-11	3.99E-11
ingestion meat	3.76E-10	1.87E-10	2.03E-10
ingestion vegetables	1.19E-11	5.96E-12	6.47E-12
Total exposure	5.28E-10	2.24E-10	2.50E-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	6.81E-19	1.67E-19	2.11E-19
inhalation outdoor air	8.45E-20	2.67E-19	2.51E-19
ingestion soil	2.40E-12	2.00E-13	3.89E-13
dermal contact soil	1.03E-13	3.06E-13	2.89E-13
inhalation soil	3.79E-15	2.23E-15	2.37E-15
ingestion milk	7.01E-11	1.59E-11	2.06E-11
ingestion meat	7.05E-11	3.50E-11	3.80E-11
ingestion vegetables	3.04E-12	1.52E-12	1.65E-12
Total exposure	1.46E-10	5.29E-11	6.09E-11

---  
= 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	1.25E-17	3.08E-18	3.89E-18
inhalation outdoor air	1.55E-18	4.91E-18	4.62E-18
ingestion soil	3.10E-12	2.58E-13	5.02E-13
dermal contact soil	1.33E-13	3.95E-13	3.73E-13
inhalation soil	4.90E-15	2.88E-15	3.05E-15
ingestion milk	1.08E-10	2.45E-11	3.17E-11
ingestion meat	2.99E-10	1.48E-10	1.61E-10
ingestion vegetables	9.49E-12	4.73E-12	5.14E-12
Total exposure	4.20E-10	1.78E-10	1.99E-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	4.17E-18	1.02E-18	1.29E-18
inhalation outdoor air	5.17E-19	1.63E-18	1.54E-18
ingestion soil	1.03E-12	8.58E-14	1.67E-13
dermal contact soil	4.41E-14	1.31E-13	1.24E-13
inhalation soil	1.63E-15	9.57E-16	1.01E-15
ingestion milk	3.59E-11	8.15E-12	1.05E-11
ingestion meat	9.93E-11	4.93E-11	5.36E-11
ingestion vegetables	3.15E-12	1.57E-12	1.71E-12
Total exposure	1.39E-10	5.92E-11	6.61E-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         1.92E-17      4.72E-18      5.96E-18
inhalation outdoor air        2.38E-18      7.53E-18      7.09E-18
ingestion soil                 4.20E-12      3.50E-13      6.80E-13
dermal contact soil           1.80E-13      5.36E-13      5.05E-13
inhalation soil                6.64E-15      3.90E-15      4.14E-15
ingestion milk                 1.46E-10      3.32E-11      4.29E-11
ingestion meat                 4.19E-10      2.08E-10      2.26E-10
ingestion vegetables           8.28E-12      4.13E-12      4.49E-12
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---
Total exposure                 5.78E-10      2.46E-10      2.74E-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         1.01E-16      2.47E-17      3.12E-17
inhalation outdoor air        1.25E-17      3.94E-17      3.71E-17
ingestion soil                 2.20E-11      1.83E-12      3.56E-12
dermal contact soil           9.43E-13      2.81E-12      2.65E-12
inhalation soil                3.48E-14      2.05E-14      2.17E-14
ingestion milk                 7.67E-10      1.74E-10      2.25E-10
ingestion meat                 2.19E-09      1.09E-09      1.18E-09
ingestion vegetables           4.34E-11      2.16E-11      2.35E-11
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---
Total exposure                 3.03E-09      1.29E-09      1.44E-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	1.35E-15	3.32E-16	4.19E-16
inhalation outdoor air	1.68E-16	5.30E-16	4.99E-16
ingestion soil	2.40E-12	2.00E-13	3.89E-13
dermal contact soil	1.03E-13	3.06E-13	2.89E-13
inhalation soil	3.79E-15	2.23E-15	2.37E-15
ingestion milk	8.37E-11	1.90E-11	2.45E-11
ingestion meat	2.39E-10	1.19E-10	1.29E-10
ingestion vegetables	7.46E-11	3.72E-11	4.04E-11

---

Total exposure	4.00E-10	1.75E-10	1.95E-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	5.75E-17	1.41E-17	1.78E-17
inhalation outdoor air	7.13E-18	2.25E-17	2.12E-17
ingestion soil	1.90E-11	1.58E-12	3.08E-12
dermal contact soil	8.14E-13	2.42E-12	2.28E-12
inhalation soil	3.00E-14	1.77E-14	1.87E-14
ingestion milk	6.62E-10	1.50E-10	1.94E-10
ingestion meat	1.89E-09	9.40E-10	1.02E-09
ingestion vegetables	3.41E-10	1.70E-10	1.85E-10

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Total exposure	2.92E-09	1.26E-09	1.41E-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	3.31E-11	1.00E-08	3.31E-03
Measurement 2	dioxine 1,2,3,7,8-PeCDD	8.45E-11	0.00E+00	-
Measurement 3	dioxine 1,2,3,6,7,8	1.56E-10	0.00E+00	-
Measurement 4	dioxine 1,2,3,4,7,8	7.32E-11	0.00E+00	-
Measurement 5	dioxine 1,2,3,7,8,9	1.01E-10	0.00E+00	-
Measurement 6	dioxine 1,2,3,4,6,7,8	1.50E-09	0.00E+00	-
Measurement 7	dioxine OCDD	1.18E-08	1.00E-08	1.18E+00

Measurement 8	2,3,7,8 TCDF	3.34E-11	0.00E+00	-
Measurement 9	1,2,3,7,8 PeCDF	6.09E-11	0.00E+00	-
Measurement 10	1,2,3,4,7,8 HxCDF	2.50E-10	0.00E+00	-
Measurement 11	2,3,4,7,8 PeCDF	6.09E-11	0.00E+00	-
Measurement 12	1,2,3,6,7,8 HxCDF	1.99E-10	0.00E+00	-
Measurement 13	1,2,3,7,8,9 HxCDF	6.61E-11	0.00E+00	-
Measurement 14	2,3,4,6,7,8 Hp CDF	2.74E-10	0.00E+00	-
Measurement 15	1,2,3,4,6,7,8 HpCDF	1.44E-09	0.00E+00	-
Measurement 16	1,2,3,4,7,8,9 HpCDF	1.95E-10	0.00E+00	-
Measurement 17	OCDF	1.41E-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	7.41E-14	0.00E+00	-
Measurement 3	dioxine 1,2,3,6,7,8	6.11E-14	0.00E+00	-
Measurement 4	dioxine 1,2,3,4,7,8	2.87E-14	0.00E+00	-
Measurement 5	dioxine 1,2,3,7,8,9	3.88E-14	0.00E+00	-
Measurement 6	dioxine 1,2,3,4,6,7,8	8.41E-14	0.00E+00	-
Measurement 7	dioxine OCDD	1.19E-12	0.00E+00	-
Measurement 8	2,3,7,8 TCDF	3.09E-14	0.00E+00	-
Measurement 9	1,2,3,7,8 PeCDF	4.10E-14	0.00E+00	-
Measurement 10	1,2,3,4,7,8 HxCDF	3.50E-14	0.00E+00	-
Measurement 11	2,3,4,7,8 PeCDF	1.51E-15	0.00E+00	-
Measurement 12	1,2,3,6,7,8 HxCDF	2.78E-14	0.00E+00	-
Measurement 13	1,2,3,7,8,9 HxCDF	9.24E-15	0.00E+00	-
Measurement 14	2,3,4,6,7,8 Hp CDF	4.26E-14	0.00E+00	-
Measurement 15	1,2,3,4,6,7,8 HpCDF	2.23E-13	0.00E+00	-
Measurement 16	1,2,3,4,7,8,9 HpCDF	3.00E-12	0.00E+00	-
Measurement 17	OCDF	1.27E-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	6.80E-14	0.00E+00	-
Measurement 3	dioxine 1,2,3,6,7,8	5.60E-14	0.00E+00	-
Measurement 4	dioxine 1,2,3,4,7,8	2.63E-14	0.00E+00	-
Measurement 5	dioxine 1,2,3,7,8,9	3.56E-14	0.00E+00	-
Measurement 6	dioxine 1,2,3,4,6,7,8	7.71E-14	0.00E+00	-
Measurement 7	dioxine OCDD	1.09E-12	0.00E+00	-
Measurement 8	2,3,7,8 TCDF	2.83E-14	0.00E+00	-

Measurement 9	1,2,3,7,8 PeCDF	3.76E-14	0.00E+00	-
Measurement 10	1,2,3,4,7,8 HxCDF	3.21E-14	0.00E+00	-
Measurement 11	2,3,4,7,8 PeCDF	1.39E-15	0.00E+00	-
Measurement 12	1,2,3,6,7,8 HxCDF	2.55E-14	0.00E+00	-
Measurement 13	1,2,3,7,8,9 HxCDF	8.48E-15	0.00E+00	-
Measurement 14	2,3,4,6,7,8 Hp CDF	3.91E-14	0.00E+00	-
Measurement 15	1,2,3,4,6,7,8 HpCDF	2.05E-13	0.00E+00	-
Measurement 16	1,2,3,4,7,8,9 HpCDF	2.75E-12	0.00E+00	-
Measurement 17	OCDF	1.17E-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	3.31E-11	0.00E+00
Measurement 2	dioxine 1,2,3,7,8-PeCDD	8.45E-11	0.00E+00
Measurement 3	dioxine 1,2,3,6,7,8	1.56E-10	0.00E+00
Measurement 4	dioxine 1,2,3,4,7,8	7.32E-11	0.00E+00
Measurement 5	dioxine 1,2,3,7,8,9	1.01E-10	0.00E+00
Measurement 6	dioxine 1,2,3,4,6,7,8	1.50E-09	0.00E+00
Measurement 7	dioxine OCDD	1.18E-08	0.00E+00
Measurement 8	2,3,7,8 TCDF	3.34E-11	0.00E+00

Measurement 9	1,2,3,7,8 PeCDF	6.09E-11	0.00E+00
Measurement 10	1,2,3,4,7,8 HxCDF	2.50E-10	0.00E+00
Measurement 11	2,3,4,7,8 PeCDF	6.09E-11	0.00E+00
Measurement 12	1,2,3,6,7,8 HxCDF	1.99E-10	0.00E+00
Measurement 13	1,2,3,7,8,9 HxCDF	6.61E-11	0.00E+00
Measurement 14	2,3,4,6,7,8 Hp CDF	2.74E-10	0.00E+00
Measurement 15	1,2,3,4,6,7,8 HpCDF	1.44E-09	0.00E+00
Measurement 16	1,2,3,4,7,8,9 HpCDF	1.95E-10	0.00E+00
Measurement 17	OCDF	1.41E-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