

Annex 2 to advice 01-2013 (dossier 2011/04): Classification of carcinogenic and/or genotoxic environmental contaminants

Fiche	Substance	IARC	Toxicity				Exposure (µg/kg bw/day)			Risk characterisation		
			TDI (µg/kg bw/day)	BMDL (µg/kg bw/day)	Carc	Genotox	Mean/ P50	P95/P97.5	Population	Reference point	MOE or %TDI P50/P97.5	Remarks
FIRST PRIORITY ('HIGH CONCERN')												
1.1	Arsenic (inorganic)	1		BMDL ₀₁ = 0.3 to 8	x		0,11		Adults, Belgium	MOE	0,1 - 75	BMDL based on human data
1.4.	Lead	2A		BMDL ₀₁ = 1.50 for cardiovascular effects & BMDL ₁₀ = 0.63 for renal effects	x	x	0,13	0.36	Adults, Belgium	MOE	1.8 - 11.5	BMDL based on human data; others effects considered than carcinogenicity
				BMDL ₀₁ = 0.50 for developmental neurotoxicity			0.42	1.07	Children, Belgium	MOE	0.5 - 1.2	
SECOND PRIORITY ('MEDIUM CONCERN')												
fiche 1.2 advice 09-2010	Benzene	1	0.36	BMDL ₁₀ = 17,600	x	x	0.01-0.11	0.02-0.22	Adults, Belgium	MOE	11,000 - 200,000 46,000 - 1,1800	BMDL based on animal data. Exposure more important form air inhalation than food intake
1.2	Cadmium	1	0.36		x		0.14 / 0.12	0.28	Adults, Belgium	TWI	34-81%	
1.7	Dioxins & DL PCB	1	0,000002		x		0.58 / 0.42	1.04	Children, Belgium		118 - 292%	
fiche 1.10 advice 09-2010	HAP1 (BAP)	1		BMDL ₁₀ = 70	x	x	3.0 x10 ⁻³	6.5 x10 ⁻³	Adults, Belgium	MOE	17900/10800	BMDL based on animal data.
	HAP2	1 & 2B		BMDL ₁₀ = 170	x	x	10.7 x10 ⁻³	18.0x10 ⁻³	Adults, Belgium		15900 / 9500	
	HAP4	1 & 2B		BMDL ₁₀ = 340	x	x	19.5x10 ⁻³	34.5x10 ⁻³	Adults, Belgium		17500 / 9900	
	HAP8	1 & 2A		BMDL ₁₀ = 490	x	x	28.8x10 ⁻³	51.3x10 ⁻³	Adults, Belgium		17000 / 9600	
1.3	Methylmercury	2B	0.23		x		0.0427	0.1253	Adults, Flanders, Belgium	PTWI	18 - 56%	
							0.0168	0.0733	Adolescents, Flanders, Belgium		7 - 32%	
1.8	NDL PCB	2A	0,01 (indicative)		x		0.0053 - 0.00605	0.0108 - 0.0122	Adults, Belgium	TWI	53 - 122 %	Endocrine disruptor; indicative evaluation there is no health based guidance value
1.15	Toxaphene	2B	0.1		x		0.005	0.062	Adults, Europa	TDI	5 - 62%	Endocrine disruptor
							0,025	0,07	Infants, Europa		25 - 70%	
THIRD PRIORITY ('LOW CONCERN')												
1.9	Chlordane	2B	0.5		x		0.0015	0.0032	Adults, Denmark	PTDI	0.3 - 0.64%	
							0.0025	0.0057	Children, Denmark		0.15 - 1.14%	
1.11	DDT and metabolites	2B	10		x		0.0037	0.0084	Adults, Denmark	TDI	0.037 – 12.9%	Endocrine disruptor
							0.0067	0.0157	Children, Denmark		0.067 - 12.9%	
1.10	Heptachlor	2B	0.1		x		0.0024	0.0049	Adults, Belgium	TDI	0.21 - 5%	
1.12	Hexachlorobenzene	2B		TD ₅₀ = 810	x	x little evidence	0.0013	0.0023	Adults, Denmark	MOE	1.6 – 80 x 10 ⁵	TD ₅₀ based on animal data
							0.0026	0.0048	Children, Denmark			
1.13	HCH & lindane	2B	5		x		0.0008	0.0014	Adults, Denmark	TDI	0.02 - 0.03%	
							0.0015	0.0027	Children, Denmark		0.03 -0.05%	
1.5	2-nitroanisole	2B			x	x	?	?		?	?	Need to estimate the exposure
fiche 1.8 advice 09-2010	nitro-PAH	2B & 3			x	x	negligeable dietary intake compared to HAP				?	
1.6	PBB	2B	0.15		x					NOEL	5 to 6 orders below NOEL	No concern (EFSA)
1.14	Polychlorophenols and their salts	2B	5	400 (slope factor)	x		0.015		Adults France	TDI	0 - 0.3%	Pentachlorophenol
							0,025		Children, France		0 - 0.5 %	