

(Class of) substances

GUIDANCE
VALUES**

DERMAL PENETRATION*

60 % to 10 %

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Dioxin and Dioxin-like Furans and Polychlorinated Biphenyls [ng/kg sum TEQ of the detected congeners of (PCDDs, PCDFs and DLPCBs)]				2
Dibenzo-p-dioxins (PCDDs)				
2,3,7,8-TCDD (CAS 1746-01-6)	1,2,3,7,8-PeCDD (CAS 40321-76-4)	1,2,3,4,7,8-HxCDD (CAS 39227-28-6)	1,2,3,6,7,8-HxCDD (CAS 57653-85-7)	
1,2,3,7,8,9-HxCDD (CAS 19408-74-3)	1,2,3,4,6,7,8-HpCDD (CAS 35822-46-9)	OCDD (CAS 3268-87-9)		
Dibenzofurans (PCDFs)				
2,3,7,8-TCDF (CAS 51207-31-9)	1,2,3,7,8-PeCDF (CAS 57117-41-6)	2,3,4,7,8-PeCDF (CAS 57117-31-4)	1,2,3,4,7,8-HxCDF (CAS 70648-26-9)	
1,2,3,6,7,8-HxCDF (CAS 57117-44-9)	1,2,3,7,8,9-HxCDF (CAS 72918-21-9)	2,3,4,6,7,8-HxCDF (CAS 60851-34-5)	1,2,3,4,6,7,8-HpCDF (CAS 67562-39-4)	
1,2,3,4,7,8,9-HpCDF (CAS 55673-89-7)	OCDF (CAS 39001-02-0)			
DL-PCBs				
PCB 77 (CAS 32598-13-3)	PCB 81 (CAS 70362-50-4)	PCB 126 (CAS 57465-28-8)	PCB 169 (CAS 32774-16-6)	
PCB 105 (CAS 32598-14-4)	PCB 114 (CAS 74472-37-0)	PCB 118 (CAS 31508-00-6)	PCB 123 (CAS 65510-44-3)	
PCB 156 (CAS 38380-08-4)	PCB 157 (CAS 69782-90-7)	PCB 167 (CAS 52663-72-6)	PCB 189 (CAS 39635-31-9)	
Polycyclic aromatic hydrocarbons (PAH) [mg/kg]				0,2
Benzo(a)anthracene (CAS 56-55-3)	Benzo(a)pyrene (CAS 50-32-8)	Benzo(e)pyrene (CAS 192-97-2)	Chrysene (CAS 218-01-9)	
Benzo(b)fluoranthene (CAS 205-99-2)	Benzo(k)fluoranthene (CAS 207-08-9)	dibenzo(a,h)anthracene (CAS 53-70-3)	Benzo[j]fluoranthene (CAS 205-82-3)	
Benzo[g,h,i]perylene (CAS 191-24-2)	Indeno[1,2,3-cd]pyrene (CAS 193-39-5)	Phenanthrene (CAS 85-01-8)	Pyrene (CAS 129-00-0)	
Anthracene (CAS 120-12-7)	Fluoranthene (CAS 206-44-0)	Naphthalene (CAS 91-20-3)	Fluorene (CAS 86-73-7)	
Acenaphthylene (CAS 208-96-8)	Benzo[c]fluorene (CAS 205-12-9)	dibenzo[def,p]chrysene (CAS 191-30-0)		
Phenols [mg/kg]				10
Bisphenol A (CAS 80-05-7)	4-t-Octylphenoldiethoxylate (CAS 2315-61-9)	4-tert-Octylphenol (CAS 140-66-9)	4-t-Octylphenoltriethoxylate (CAS 2315-62-0)	
4-t-Octylphenoltetraethoxylate (CAS 2315-63-1)	4-t-Octylphenolpentaethoxylate (CAS 2315-64-2)	4-t-Octylphenolhexaethoxylate (CAS 2497-58-7)	iso-Nonylphenolmonoethoxylate (CAS 104-35-8)	
iso-Nonylphenoltriethoxylate (CAS 51437-95-7)	iso-Nonylphenoltetraethoxylate (CAS 37205-87-1)	iso-Nonylphenolpentaethoxylate (CAS 68412-54-4)	4-n-nonylphenol (CAS 104-40-5)	

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DERMAL PENETRATION * < 1% to < 0.01%	Phthalates [mg/kg]				50
	DINP (CAS 28553-12-0)	DEHP (CAS 117-81-7)	DNOP (CAS 117-84-0)	DIDP (CAS 26761-40-0/ 68515-49-1)	
	BBP (CAS 85-68-7)	DBP (CAS 84-74-2)	DiBP (CAS 84-69-5)	DIHP (CAS 71888-89-6)	
	BMEP (CAS 117-82-8)	DPP/DIPP (CAS 605-50-5)	DnPP (CAS131-18-0)	DnHP (CAS 84-75-3)	
	DMP (CAS 131-11-3)	DHNUP (CAS 68515-42-4)	DCHP (CAS 84-61-7)	DHxP (CAS 68515-50-4)	
	DIHxP (CAS 71850-09-4)	DIOP (CAS 27554-26-3)	DPrP (CAS 131-16-8)	DNP (CAS 84-76-4)	
	1,2-benzenedicarboxylic acid, di-C6-10 alkyl esters (CAS 68515-51-5)		1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters (CAS 68648-93-1)		
	Di-2-propylheptyl phthalate CAS 53306-54-0	Diethyl phthalate CAS 84-66-2	Hexyl-2-ethylhexyl phthalate CAS 75673-16-4	Dibutoxyethyl phthalate CAS 117-83-9	
	Di-2-ethoxyethyl phthalate CAS 605-54-9				
DERMAL PENETRATION * < 10 to 1%	Pesticides [mg/kg]				0,5
	Glyphosate (CAS 1071-83-6)	AMPA (CAS 1066-51-9)	Quintozene (CAS 82-68-8)	Hexachlorobenzene (CAS 118-74-1)	
	Organotins [µg /kg]				
	Monobutyltin (CAS 78763-54-9)	Triphenyltin (CAS 668-34-8)	Diocetyl tin (CAS 15231-44-4)	Monooctyltin (CAS 15231-57-9)	
	Dibutyltin (CAS 1002-53-5)				10
	Tributyltin (CAS 688-73-3)				2
	Formaldehyde [mg/kg]				16
	Formaldehyde (CAS 50-00-0)				
DERMAL PENETRATION * < 10 to 1%	Metals [mg/kg]				
	Antimony (CAS 7440-36-0)				30
	Cadmium (CAS 7440-43-9)				0,1
	Chromium (CAS 7440-47-3)				1
	Lead (CAS 7439-92-1)				0,2
	Mercury (CAS 7439-97-6)				0,02

* The dermal penetration (based on dermal absorption estimates and toxicity classification) is in general and specific values would apply where data exists

** Regulatory references: Dioxin, Furans and Dioxin-like Polychlorinated Biphenyls : Reference value adapted from Regulation EC 1259/2011 on contaminants in foodstuff (infant food) taking into account that the systemic exposure via skin uptake is likely 10 % of the oral exposure | PAHs: Recommendation BfR/German BauA AfPs | BPA: REACH restriction proposal on bisphenols | Nonylphenols: Oeko-Tex-Standard 100, annex 4 | Phthalates: ECHA investigation report on CMR substances in childcare articles | Pesticides, Formaldehyde, Metals : Oeko-Tex® Standard 100, annexes 4& 6 Organotins: EDANA guideline