

Annex 6

List of 146 substances evaluated in the Expert meeting

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Selected chemicals

It was decided to select the HPV-chemicals, the highly persistent chemicals and the metals. The following selection criteria have been applied:

- High production volume chemicals (HPV) selected by combining the working list of potential Endocrine disrupters (EDS) with the HPV chemicals list (directive EC/793/93) (2465 substances).
- Persistent substances selected on basis of Quantitative Structural Analysis Relationships (QSAR) derived from the Syracuse Estimation program. Combining two biodegradation models (the linear probability model and the ultimate degradation model), substances are considered as highly persistent that have a low probability of degradation ($P < 0.1$) when applying the linear probability model and ultimately biodegrade in more than months when applying the ultimate degradation model. For the list only the highly persistent substances were selected with an ultimate degradation of more than months. This group was supplemented with a number of PCBs, polychlorinated -dioxins and -dibenzofurans, polybrominated -biphenyls and -biphenylethers, which were considered as Highly persistent by the expert group.
- Other substances added to the list were metals from the EDS working list.

An overview is given of the total number of records, the number of positive records and the number of negative records per chemical. For the distinction of positive and negative data all human health and wildlife data are put together.

Selected substances and their number of positive and negative results (positive: effect found; negative: no effect found)

Chemno	CASNR	Name	Selection	Neg	Pos	Total
2	10605-21-7	Carbendazim	HPV	5	24	29
10	309-00-2	Aldrin	Highly Pers	1	7	8
11	12789-03-6	Chlordane	Highly Pers	3	5	8
12	57-74-9	Chlordane (cis- and trans-)	Highly Pers	1	4	5
13	3734-48-3	Chlordene	Highly Pers	0	1	1
15	60-57-1	Dieldrin	Highly Pers	9	18	27
16	115-29-7	Endosulfan	HPV/Highly Pers	2	14	16
17	959-98-8	Endosulfan (alpha)	Highly Pers	0	1	1
18	33213-65-9	Endosulfan (beta)	Highly Pers	0	2	2
19	72-20-8	Endrin	Highly Pers	2	22	24
20	143-50-0	Kepone (Chlordecone)	Highly Pers	0	24	24
21	2385-85-5	Mirex	Highly Pers	8	12	20
22	27304-13-8	Oxychlordane	Highly Pers	0	1	1
23	39801-14-4	Photomirex	Highly Pers	0	1	1
24	8001-35-2	Toxaphene = Camphechlor	Highly Pers	2	11	13
25	39765-80-5	Trans-Nonachlor	Highly Pers	0	2	2
27	94-75-7	2,4-Dichlorophenoxy acetic acid (2,4-D)	HPV	15	7	22
29	67747-09-5	Prochloraz	HPV	0	0	0
42	50-29-3	DDT (technical) = clofenotane	HPV	3	9	12
44	115-32-2	Dicofol = Kelthane	HPV	0	5	5
56	50-29-3	p,p'-DDT = clofenotane	HPV	2	11	13
57	3563-45-9	Tetrachloro DDT = 1,1,1,2-Tetrachloro-2,2-bis(4-chlorophenyl)ethane	Highly Pers	0	1	1
60	36734-19-7	Iprodione	HPV	0	0	0
63	50471-44-8	Vinclozolin	HPV	2	12	14
69	12427-38-2	Maneb	HPV	1	9	10
70	137-42-8	Metam Natrium	HPV	0	0	0
73	137-26-8	Thiram	HPV	1	3	4
74	12122-67-7	Zineb	HPV	1	10	11
75	137-30-4	Ziram	HPV	0	3	3
78	58-89-9	Gamma-HCH (Lindane)	HPV	11	39	50
85	330-54-1	Diuron	HPV	0	0	0
87	330-55-2	Linuron (Lorox)	HPV	1	4	5
104	333-41-5	Diazinon	HPV	2	5	7
106	60-51-5	Dimethoate	HPV	5	4	9
109	55-38-9	Fenthion	HPV	0	1	1
113	121-75-5	Malathion	HPV	0	25	25
115	298-00-0	Methylparathion	HPV	2	14	16
119	56-38-2	Parathion = Parathion(-ethyl)	HPV	0	1	1
141	61-82-5	Amitrol = Aminotriazol	HPV	6	34	40
142	1912-24-9	Atrazine	HPV	10	12	22
156	122-34-9	Simazine	HPV	5	0	5
159	43121-43-3	Triadimefon	HPV	0	1	1
163	34256-82-1	Acetochlor	HPV	0	1	1
164	15972-60-8	Alachlor	HPV	4	6	10
169	106-93-4	Dibromoethane (EDB)	HPV	4	11	15
176	76-44-8	Heptachlor	Highly Pers	2	5	7
177	1024-57-3	Heptachlor-epoxide	Highly Pers	1	2	3
179	74-83-9	Methylbromide (bromomethane)	HPV	5	9	14
182	1836-75-5	Nitrofen	HPV	0	1	1
183	4685-14-7	Paraquat = 1,1'-dimethyl-4,4'-bipyridinium	HPV	2	0	2
187	709-98-8	Propanil	HPV	0	1	1
190	29082-74-4	Octachlorostyrene	Highly Pers	0	0	0
191	100-42-5	Styrene	HPV	2	3	5
194	120-83-2	2,4 Dichlorophenol	HPV	1	2	3
195	1570-64-5	4-chloro-2-methylphenol	HPV	0	0	0
196	59-50-7	4-chloro-3-methylphenol	HPV	0	0	0
198	118-74-1	Hexachlorobenzene (HCB)	HPV	1	13	14
215	98-54-4	4-tert-Butylphenol	HPV	0	5	5

Chemno	CASNR	Name	Selection	Neg	Pos	Total
216	140-66-9	4-tert-Octylphenol=1,1,3,3-Tetramethyl-4-butylphenol	HPV	2	15	17
253	11081-15-5	Phenol, isoocetyl-	HPV	0	0	0
254	25154-52-3	Phenol, nonyl-	HPV	0	5	5
275	68515-49-1	1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (DINP)	HPV	0	0	0
277	103-23-1	Bis(2-ethylhexyl)adipate	HPV	0	0	0
278	85-68-7	Butylbenzylphthalate (BBP)	HPV	3	14	17
279	117-81-7	Di-(2-ethylhexyl)phthalate (DEHP)	HPV	14	31	45
280	84-61-7	Dicyclohexyl phthalate (DCHP)	HPV	0	0	0
281	84-66-2	Diethyl phthalate (DEP)	HPV	0	1	1
283	26761-40-0	Diisodecyl phthalate	HPV	0	0	0
284	28553-12-0	diisononyl phthalate = 1,2-Benzenedicarboxylic acid, diisononyl ester (DINP)	HPV	0	0	0
286	84-74-2	Di-n-butylphthalate (DBP)	HPV	8	48	56
318	1675-54-3	2,2'-bis(4-(2,3-epoxypropoxy)phenyl)propane = 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	HPV	0	0	0
326	80-05-7	2,2-Bis(4-hydroxyphenyl)propan = 4,4'-isopropylidenediphenol = Bisphenol A	HPV	2	29	31
348	106-89-8	Epichlorohydrin (1-chloro-2,3-epoxypropane)	HPV	2	5	7
370	92-52-4	Diphenyl	HPV	0	0	0
371	90-43-7	o-phenylphenol	HPV	0	0	0
396	1336-36-3	PCB	Pers	1	12	13
405	38380-07-3	PCB 128 (2,2',3,3',4,4'-Hexachlorobiphenyl)	Pers	0	1	1
406	38411-22-2	PCB 136 (2,2',3,3',6,6'-Hexachlorobiphenyl)	Pers	0	1	1
408	35065-27-1	PCB 153 (2,2',4,4',5,5'-Hexachlorobiphenyl)	Pers	0	7	7
409	38380-08-4	PCB 156 (2,3,3',4,4',5-Hexachlorobiphenyl)	Pers	0	2	2
410	32774-16-6	PCB 169 (3,3',4,4',5,5'-Hexachlorobiphenyl)	Pers	0	2	2
417	2437-79-8	PCB 47 (2,2',4,4'-Tetrachlorobiphenyl)	Pers	0	1	1
418	70362-47-9	PCB 48 (2,2',4,5-Tetrachlorobiphenyl)	Pers	0	1	1
419	35693-99-3	PCB 52 (2,2',5,5'-Tetrachlorobiphenyl)	Pers	4	1	5
420	33284-53-6	PCB 61 (2,3,4,5-Tetrachlorobiphenyl)	Pers	0	1	1
421	32598-12-2	PCB 75 (2,4,4',6-Tetrachlorobiphenyl)	Pers	0	1	1
422	32598-13-3	PCB 77 (3,3',4,4'-Tetrachlorobiphenyl)	Pers	0	4	4
427	53469-21-9	PCB Aroclor 1242	Pers	0	7	7
428	12672-29-6	PCB Aroclor 1248	Pers	0	4	4
429	11097-69-1	PCB Aroclor 1254	Pers	0	24	24
430	11096-82-5	PCB Aroclor 1260 (Clophen A60)	Pers	0	1	1
435	No CAS 046	2,2',4,4'-Tetrabrominated diphenyl ether (2,2',4,4'-tetraBDE)	Pers	0	2	2
436	No CAS 044	Decabrominated diphenyl ether (decaBDE)	Pers	1	4	5
437	No CAS 043	Octabrominated diphenyl ether (octaBDE)	Pers	0	6	6
438	59536-65-1	PBBs = Brominated Biphenyls (mixed group of 209 Congeners)	Pers	0	3	3
439	No CAS 045	Pentabrominated diphenyl ether (pentaBDE)	Pers	2	3	5
444	135-19-3	2-Naphthol	HPV	1	1	2
467	40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	Pers	0	1	1
472	1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)	Pers	3	53	56
483	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	Pers	0	1	1
484	83704-53-4	1,2,3,7,9-Pentachlorodibenzofuran	Pers	0	2	2
485	58802-20-3	1,2,7,8-Tetrachlorodibenzofuran	Pers	0	2	2
486	71998-72-6	1,3,6,8-Tetrachlorodibenzofuran	Pers	0	2	2
487	57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran (2,3,4,7,8-PeCDF)	Pers	0	6	6
488	67733-57-7	2,3,7,8-Tetrabromodibenzofuran	Pers	1	11	12
489	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	Pers	0	5	5
503	106340-44-7	Tetrabromodibenzofuran (TeBDF)	Pers	0	1	1
504	7429-90-5	Aluminum	HPV\Metal	3	8	11
505	7440-43-9	Cadmium	HPV\Metal	6	17	23
506	1332-40-7	Copper oxychlor	Metal	0	0	0
507	7758-98-7	Copper sulfate	HPV\Metal	7	19	26
508	7439-92-1	Lead	HPV\Metal	10	22	32
509	7439-97-6	Mercury	Metal	2	23	25
510	22967-92-6	Methylmercury	Metal	2	10	12

Chemno	CASNR	Name	Selection	Neg	Pos	Total
511	No CAS 050	Tributyltin compounds	Metal	0	8	8
512	688-73-3	Tributyltin	Metal	2	21	23
513	56-35-9	Tributyltin oxide = bis(tributyltin) oxide	HPV\Metal	2	19	21
514	26354-18-7	2-propenoic acid, 2-methyl-, methyl ester = Stannane, tributylmeacrylate	Metal	0	0	0
515	No CAS 100	Methoxyethylacrylate tinbutyltin, copolymer	Metal	0	0	0
516	4342-30-7	Phenol, 2-[[[(tributylstannyloxy]carbony	Metal	0	0	0
517	4342-36-3	Stannane, (benzoyloxy)tributyl-	Metal	0	0	0
518	4782-29-0	Stannane, [1,2-phenylenebis(carbonyloxy)	Metal	0	0	0
519	36631-23-9	Stannane, tributyl = Tributyltin naphthalate	Metal	0	0	0
520	85409-17-2	Stannane, tributyl-, mono(naphthenoyloxy	Metal	0	0	0
521	24124-25-2	Stannane, tributyl[(1-oxo-9,12-octadecad	Metal	0	0	0
522	3090-35-5	Stannane, tributyl[(1-oxo-9-octadecenyl)	Metal	0	0	0
523	26239-64-5	Stannane, tributyl[[[1,2,3,4,4a,4b,5,6,1	Metal	0	0	0
524	4-10-83	Stannane, tributylfluoro-	Metal	0	0	0
525	2155-70-6	Tributyl[(2-methyl-1-oxo-2-propenyl)oxy]stannane	Metal	0	0	0
526	No CAS 099	Tributyltin carboxylate	Metal	0	0	0
527	26636-32-8	Tributyltin naphthalate	Metal	0	0	0
528	No CAS 101	Tributyltin polyethoxylate	Metal	0	0	0
529	2279-76-7	Tri-n-propyltin (TPrT)	Metal	0	2	2
530	1461-25-2	Tetrabutyltin (TTBT)	HPV\Metal	0	2	2
531	No CAS 051	Triphenyltin	Metal	0	0	0
532	900-95-8	Fentin acetate	Metal	0	1	1
536	95-76-1	3,4-Dichloroaniline	HPV	0	1	1
538	99-99-0	4-Nitrotoluene	HPV	0	0	0
541	119-61-9	Benzophenone	HPV	0	0	0
543	75-15-0	Carbon disulphide	HPV	0	1	1
545	68-12-2	Dimethylformamide (DMFA)	HPV	0	0	0
548	107-21-1	Ethylene glycol (ethane-1,2-diol)	HPV	0	0	0
557	127-18-4	Perchloroethylene	HPV	0	1	1
558	108-95-2	Phenol	HPV	1	6	7
560	108-46-3	Resorcinol	HPV	0	2	2
564	108-05-4	Vinyl acetate	HPV	0	1	1