

Appendix 3. annex 1(EU REACH Regulation SVHC)

2019/7/16

No.	Name of substance	Chemical substance no. CAS No.	Remarks	Update on
1	Dibutyl phthalate;(DBP)	84-74-2	RoHS2 60 Phtalates 1) PRTR(1-354)	2008/10/28
2	Bis(2-ethylhexyl) phthalate;(DEHP)	117-81-7	RoHS2 60 Phtalates 2) PRTR(1-355)	2008/10/28 2014/12/17
3	Benzyl butyl phthalate;(BBP)	85-68-7	RoHS2 60 Phtalates 3) PRTR(1-356)	2008/10/28
4	Diarsenic pentaoxide	1303-28-2	87 Arsenic and its compounds	2008/10/28
5	Diarsenic trioxide	1327-53-3	87 Arsenic and its compounds, Safety and Health Law	2008/10/28
6	Cobalt dichloride	7646-79-9	94 Cobalt(II) chloride	2008/10/28 2011/6/20
7	4,4'-diaminodiphenylmethane;4,4'-methylenedianiline;(MDA)	101-77-9	40 Azo compounds and aromatic amines 13)	2008/10/28
8	Hexabromocyclododecane;(HBCDD)	25637-99-4, 3194-55-6,1 34237-50-6, 134237-51-7, 134237-52-8	14 Hexabromocyclododecane, Brominated flame retardant	2008/10/28
9	Anthracene	120-12-7	100 PAHs 6)	2008/10/28
10	5-tert-butyl-2,4,6-trinitro-m-xylene;Musk	81-15-2	Musk xylene	2008/10/28
11	Triethyl arsenate	15606-95-8	87 Arsenic and its compounds	2008/10/28
12	Sodium dichromate, dyhydrate Sodium dichromate anhydrate	7789-12-0 10588-01-9	4 Chrome (VI) compounds	2008/10/28
13	Alkanes, C10-C13, chloro (Short Chain Chlorinated Paraffins);(SCCPs)	85535-84-8	9 Chlorinated paraffins	2008/10/28
14	Bis(tributyltin) oxide;(TBTO)	56-35-9	17 Tributyl tin oxide(TBTO)	2008/10/28
15	Lead hydrogen arsenate	7784-40-9	2 Lead and its compounds	2008/10/28
16	Anthracene oil	90640-80-5		2010/1/13
17	Anthracene oil, anthracene paste, distn.	91995-17-4		2010/1/13
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	100 PAHs 6)	2010/1/13
19	Anthracene oil, anthracene-low	90640-82-7		2010/1/13
20	Anthracene oil, anthracene paste	90640-81-6		2010/1/13
21	coal tar pitch, high temperature	65996-93-2	39 Coal tar	2010/1/13
22	Aluminosilicate, Refractory Ceramic Fibres	—	Refractory ceramic fiber. Enlarge the definition range on 2011/12/19	2010/1/13
23	Zirconia Aluminosilicate, Refractory Ceramic Fibres	—	Refractory ceramic fiber. Enlarge the definition range on 2011/12/19	2010/1/13
24	2,4-Dinitrotoluene	121-14-2		2010/1/13
25	Diisobutyl phthalate	84-69-5	RoHS2 60 Phtalates 9)	2010/1/13
26	Lead chromate	7758-97-6	2 Lead and its compounds	2010/1/13
27	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8	2 Lead and its compounds	2010/1/13
28	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	2 Lead and its compounds	2010/1/13
29	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	31 Organic phosphorous compounds 22) (US (state or Vermont) legislation)	2010/1/13
30	Acrylamide	79-06-1		2010/3/30
31	Trichloroethylene	79-01-6	44 Organochlorine solvents	2010/6/18
32	Boric acid	10043-35-3, 11113-50-1		2010/6/18
33	Disodium tetraborates, anhydrous	1330-43-4, 12179-04-3, 1303-96-4		2010/6/18
34	Tetraboron disodium heptaoxide, hydrate	12267-73-1		2010/6/18
35	Sodium chromate	7775-11-3	4 Chrome (VI) compounds	2010/6/18
36	Potassium chromate	7789-00-6	4 Chrome (VI) compounds	2010/6/18
37	Ammonium dichromate	7789-09-5	4 Chrome (VI) compounds	2010/6/18
38	Potassium dichromate	7778-50-9	4 Chrome (VI) compounds	2010/6/18
39	Cobalt (di)acetate	71-48-7		2010/12/15
40	Cobalt (II) carbonate	513-79-1		2010/12/15
41	Cobalt dinitrate	10141-05-6		2010/12/15
42	Cobalt (II) sulphate	10124-43-3		2010/12/15
43	2-Ethoxyethanol	110-80-5		2010/12/15
44	2-Methoxyethanol	109-86-4	96 2-Methoxyethanol	2010/12/15
45	Trioxochromium	1333-82-0	4 Chrome (VI) compounds	2010/12/15
46	Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94-5, 13530-68-2	4 Chrome (VI) compounds	2010/12/15
47	2-Ethoxyethyl acetate	111-15-9		2011/6/20
48	Strontium chromate	7789-06-2	4 Chrome (VI) compounds	2011/6/20
49	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	60 Phtalates 11)	2011/6/20
50	Hydrazine	302-01-2, 7803-57-8		2011/6/20
51	N-methyl-2-pyrrolidone; 1-methyl-2-	872-50-4		2011/6/20
52	1,2,3-trichloropropane	96-18-4	44 Organochlorine solvents	2011/6/20
53	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	60 Phtalates 10)	2011/6/20
54	Dichromium tris(chromate)	24613-89-6	4 Chrome (VI) compounds	2011/12/19

55	Potassium	11103-86-9	4 Chrome (VI) compounds	2011/12/19
56	Pentazinc chromate octahydroxide	49663-84-5	4 Chrome (VI) compounds	2011/12/19
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4		2011/12/19
58	Bis(2-methoxyethyl) phthalate	117-82-8	60 Phthalates 7)	2011/12/19
59	2-Methoxyaniline; o-Anisidine	90-04-0	40 Azo compounds and aromatic amines 2)	2011/12/19
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9		2011/12/19
61	1,2-Dichloroethane; ethylene dichloride	107-06-2	44 Organochlorine solvents	2011/12/19
62	Bis(2-methoxyethyl) ether	111-96-6		2011/12/19
63	Arsenic acid	7778-39-4	87 Arsenic and its compounds	2011/12/19
64	Calcium arsenate	7778-44-1	87 Arsenic and its compounds	2011/12/19
65	Trilead diarsenate	3687-31-8	87 Arsenic and its compounds, 2 Lead and its compounds	2011/12/19
66	N,N-dimethylacetamide (DMAC)	127-19-5		2011/12/19
67	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	Safety and Health Law, PRTR (1-160), 40 Azo compounds and aromatic amines 2)	2011/12/19
68	Phenolphthalein	77-09-8		2011/12/19
69	Lead diazide; Lead azide	13424-46-9	2 Lead and its compounds	2011/12/19
70	Lead styphnate	15245-44-0	2 Lead and its compounds	2011/12/19
71	Lead dipicrate	6477-64-1	2 Lead and its compounds	2011/12/19
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2		2012/6/18
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4		2012/6/18
74	Diboron trioxide	1303-86-2	PRTR(1-405)	2012/6/18
75	Formamide	75-12-7		2012/6/18
76	Lead(II) bis(methanesulfonate)	1757076-2	2 Lead and its compounds	2012/6/18
77	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	PRTR(1-291)	2012/6/18
78	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	59653-74-6		2012/6/18
79	(Michler's ketone)	90-94-8		2012/6/18
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1		2012/6/18
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9		2012/6/18
82	[4-[4-aminophenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5		2012/6/18
83	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5)]	6786-83-0		2012/6/18
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1		2012/6/18
85	Pyrochlore, antimony lead yellow	8012-00-8	2 Lead and its compounds	2012/12/19
86	6-methoxy-m-toluidine (p-cresidine)	120-71-8	40 Azo compounds and aromatic amines 18), PRTR (1-451)	2012/12/19
87	Henicosaflluoroundecanoic acid	2058-94-8		2012/12/19
88	Hexahydromethylphthalic anhydride Hexahydro-4-methylphthalic anhydride Hexahydro-1-methylphthalic anhydride Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9		2012/12/19
89	Cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3 14166-21-3		2012/12/19
90	Dibutyltin dichloride (DBT)	683-18-1	19 Dibutyltin (DBT) compounds	2012/12/19
91	Lead bis(tetrafluoroborate)	13814-96-5	2 Lead and its compounds	2012/12/19
92	Lead dinitrate	10099-74-8	2 Lead and its compounds	2012/12/19
93	Silicic acid, lead salt	11120-22-2	2 Lead and its compounds	2012/12/19
94	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	40 Azo compounds and aromatic amines 1)	2012/12/19
95	Lead Titanium Zirconium Oxide	12626-81-2	2 Lead and its compounds	2012/12/19
96	Lead oxide (lead monoxide)	1317-36-8	2 Lead and its compounds	2012/12/19
97	o-Toluidine; 2-Aminotoluene	95-53-4	40 Azo compounds and aromatic amines 7)	2012/12/19
98	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2		2012/12/19
99	Silicic acid, barium salt, lead-doped	68784-75-8	2 Lead and its compounds	2012/12/19
100	Basic lead carbonate (trilead bis(carbonate)dihydroxide)	1319-46-6	2 Lead and its compounds	2012/12/19
101	Furan	110-00-9	PRTR(1-377)	2012/12/19
102	N,N-dimethylformamide; dimethyl	68-12-2	107 N,N-Dimethylformamide	2012/12/19
103	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol), 4-nonyl-, branched and linear	-		2012/12/19
104	covering all individual isomers with an alkyl chain of carbon number 9 and UVCB	-		2012/12/19

105	4,4'-methylenedi-o-toluidine	838-88-0	40 Azo compounds and aromatic amines 22)	2012/12/19
106	Diethyl sulphate	64-67-5		2012/12/19
107	Dimethyl sulphate	77-78-1		2012/12/19
108	Basic lead sulphate (lead oxide sulphate)	12036-76-9	2 Lead and its compounds	2012/12/19
109	Lead titanium trioxide	12060-00-3	2 Lead and its compounds	2012/12/19
110	Acetic acid, lead salt, basic	51404-69-4	2 Lead and its compounds	2012/12/19
111	Dibasic lead phthalate (phthalate(2-dioxotrilead))	69011-06-9	2 Lead and its compounds	2012/12/19
112	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	6 Polybrominated diphenyl ethers(PBDE), PRTR(1-255)	2012/12/19
113	N-methylacetamide	79-16-3		2012/12/19
114	Dinoseb	88-85-7	PRTR(1-441)	2012/12/19
115	1,2-Diethoxyethane	629-14-1		2012/12/19
116	Tetralead trioxide sulphate	12202-17-4	2 Lead and its compounds	2012/12/19
117	N-pentyl-isopentylphthalate	776297-69-9	60 Phthalates 18)	2012/12/19
118	Dioxobis(stearato)trilead	12578-12-0	2 Lead and its compounds	2012/12/19
119	Tetraethyllead	78-00-2	2 Lead and its compounds	2012/12/19
120	Pentalead tetraoxide sulphate	12065-90-6	2 Lead and its compounds	2012/12/19
121	Pentacosafuorotridecanoic acid	72629-94-8		2012/12/19
122	Tricosafuorododecanoic acid	307-55-1		2012/12/19
123	Heptacosafuorotetradecanoic acid	376-06-7		2012/12/19
124	1-bromopropane	106-94-5	PRTR(1-255)	2012/12/19
125	Methoxy acetic acid	625-45-6		2012/12/19
126	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	40 Azo compounds and aromatic amines 9)	2012/12/19
127	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	PRTR(1-441)	2012/12/19
128	Trilead dioxide phosphonate	12141-20-7	2 Lead and its compounds	2012/12/19
129	o-aminoazotoluene	97-56-3	40 Azo compounds and aromatic amines 10)	2012/12/19
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	60 Phthalates 15)	2012/12/19
131	4,4'-oxydianiline and its salts	101-80-4	40 Azo compounds and aromatic amines 14), PRTR(1-143)	2012/12/19
132	Lead tetroxide (orange lead)	1314-41-6	2 Lead and its compounds	2012/12/19
133	Biphenyl-4-ylamine	92-67-1	40 Azo compounds and aromatic amines 5)	2012/12/19
134	Diisopentylphthalate	605-50-5	60 Phthalates 16)	2012/12/19
135	Fatty acids, C16-18, lead salts	91031-62-8	2 Lead and its compounds	2012/12/19
136	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3		2012/12/19
137	Sulfurous acid, lead salt, dibasic	62229-08-7	2 Lead and its compounds	2012/12/19
138	Lead cyanidate	20837-86-9	2 Lead and its compounds	2012/12/19
139	Perfluorooctanic acid (PFOA)	335-67-1	89 PFOA(Perfluorooctanate) and individual salts and esters of PFOA	2013/6/20
140	Cadmium oxide	1306-19-0	1 Cadmium and its compounds	2013/6/20
141	Ammoniumpentadecafluorootanoate	3825-26-1	89 PFOA(Perfluorooctanate) and individual salts and esters of PFOA, PF	2013/6/20
142	Cadmium	7440-43-9	1 Cadmium and its compounds	2013/6/20
143	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues]	-		2013/6/20
144	Di-n-pentyl phthalate	131-18-0	60 Phthalates 17)	2013/6/20
145	Cadmium sulphide	1306-23-6	1 Cadmium and its compounds	2013/12/16
146	Dihexyl phthalate	84-75-3	60 Phthalates 8)	2013/12/16
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0		2013/12/16
148	Disodium 4-amino-3'-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate	1937-37-7		2013/12/16
149	Imidazolidine-2-thione; 2-imidazoline-2-	96-45-7	PRTR(1-42)	2013/12/16
150	Lead di(acetate)	301-04-2	2 Lead and its compounds	2013/12/16
151	Triethyl phosphate	25155-23-1	51 Organic phosphorous compounds 25)Other organic phosphorus com	2013/12/16
152	Cadmium chloride	10108-64-2	1 Cadmium and its compounds	2014/6/16
153	1,2-Benzenedicarboxylic acid,dihexyl ester, branched and linear	68515-50-4	60 Phthalates 21)	2014/6/16
154	Sodium peroxometaborate	7632-04-4	74 Boron and its compounds EC-No 231-556-4	2014/6/16
155	Sodium perborate; perboric acid, sodium	—	74 Boron and its compounds EC-No 234-390-0; 239-172-9	2014/6/16
156	Cadmium fluoride	7790-79-6	1 Cadmium and its compounds	2014/12/17
157	Cadmium sulphate	10124-36-4 31119-53-6	1 Cadmium and its compounds	2014/12/17
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	Chemical Examination Law	2014/12/17
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1		2014/12/17
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-	15571-58-1	20 Dioctyltin (DOT) compounds	2014/12/17
161	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-		2014/12/17

162	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-		2015/6/15
163	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	60 Phthalates 14)	2015/6/15
164	1,3-propanesultone	1120-71-4		2015/12/17
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1		2015/12/17
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3		2015/12/17
167	Nitrobenzene	98-95-3		2015/12/17
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1, 21049-39-8, 4149-60-4		2015/12/17
169	Benzo[a]pyrene	50-32-8	100 PAHs 16)	2016/6/20
170	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	102 Bisphenol A PRTR (1-37)	2017/1/12
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2, 3830-45-3, 3108-42-7		2017/1/12
172	p-(1,1-dimethylpropyl)phenol	80-46-6		2017/1/12
173	4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-		2017/1/12
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-		2017/7/7
175	Benz[a]anthracene	56-55-3, 1718-53-2	100 PAHs 10)	2018/1/15
176	Cadmium carbonate	513-78-0	1 Cadmium and its compounds	2018/1/15
177	Cadmium hydroxide	21041-95-2	1 Cadmium and its compounds	2018/1/15
178	Cadmium nitrate	10022-68-1, 10325-94-7	1 Cadmium and its compounds	2018/1/15
179	Chrysene	218-01-9, 1719-03-5	100 PAHs 9)	2018/1/15
180	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-		2018/1/15
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear]	-		2018/1/15
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (TMA)	552-30-7		2018/6/27
183	Benzo[ghi]perylene	191-24-2	100 PAHs 15)	2018/6/27
184	Decamethylcyclopentasiloxane (D5)	541-02-6		2018/6/27
185	Dicyclohexyl phthalate (DCHP)	84-61-7	60 Phthalates 20)	2018/6/27
186	Disodium octaborate	12008-41-2		2018/6/27
187	Dodecamethylcyclohexasiloxane (D6)	540-97-6		2018/6/27
188	Ethylenediamine (EDA)	107-15-3		2018/6/27
189	Lead	7439-92-1	2 Lead and its compounds	2018/6/27
190	Octamethylcyclotetrasiloxane (D4)	556-67-2		2018/6/27
191	Terphenyl, hydrogenated	61788-32-7		2018/6/27
192	1,7,7-trimethyl-3-(Phenylmethyl)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8		2019/1/15
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6		2019/1/15
194	Benzo[k]fluoranthene	207-08-9	100 PAHs 12)	2019/1/15
195	Fluoranthene	206-44-0	100 PAHs 7)	2019/1/15
196	Phenanthrene	85-01-8	100 PAHs 5)	2019/1/15
197	Pyrene	129-00-0	100 PAHs 8)	2019/1/15
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	-		2019/7/16
199	2-methoxyethyl acetate	110-49-6		2019/7/16
200	4-tert-butylphenol	98-54-4		2019/7/16
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	51 Organic phosphorous compounds	2019/7/16