

REACH Compliance Declaration (SVHC 33rd - 247)

In reference to European Union Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH), Tak Cheong, is providing the following information to our customers.

Based on having evaluated supplier material composition declarations, to the best of our knowledge, Tak Cheong declare, that the products assembled and tested by Tak Cheong (listed in Table-1), they do not intentionally use the chemical substances included in Candidate List of Substances of Very High Concern (SVHC) as published by ECHA (SVHC 33rd - 247 items, listed in Table-2), last updated on 2025-Jan-21, except we have identified materials within its products that may contain SVHC candidate substances in excess of 0.1% by weight as noted in Table-1 below.

Table-1: Tak Cheong Product List

Production line	Package type	Product family
Glass-diodes ^{Note 1}	DO-34	Switching, Zener
	DO-35	Switching, Schottky, DB3, Zener, TCON Zener
	DO-41	Zener, TCON Zener
	LL-34	Switching, Schottky, Zener
	LL-41	Zener
Plastic packages	SOD123/SOD323/SOD523	Switching, Schottky, Zener, TVS/ESD
	SOT523	Switching, Schottky, Transistor, MOSFET
	SOD882/SOT883/DFN0603	Switching, Schottky, TVS/ESD, Transistor
	TO-220/TO-220F ^{Note 2}	Schottky, MOSFET

Note 1: Diboron trioxide (CAS No. 1303-86-2, Item 80 in Table-2, which was added to the REACH as SVHC on Jun 18, 2012), Lead monoxide (CAS No. 1317-36-8, Item 116 in Table-2, which was added to the REACH as SVHC on Dec 19, 2012), Glass-diodes with a glass base material, the supplier of glass tube has reported these two substances as a raw ingredient. Tak Cheong may declare these substances in excess 0.1% by weight for impacted articles. However, these substances are not present in their original molecular form and cannot be released under normal or reasonably foreseeable conditions. EU REACH communications to customers and ECHA are not applicable for articles containing glass and ceramics since they are classified under EU REACH as UVCB substances (substance of unknown or variable composition, complex reaction products or biological material).

Note 2: Lead (CAS No. 7439-92-1, Item 189 in Table-2, which was added to the REACH as a SVHC on Jun 27, 2018), may be contained in Tak Cheong TO-220 products, in such cases the lead is RoHS exempted with 7(a) [Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)] or 7(c)-I [Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound]. The suppliers of die attach solder materials have reported this substance in their material composition declaration. Tak Cheong may declare this substance in excess of 0.1% by weight for impacted articles.

Gun Chen

Quality Manager

Tak Cheong Electronics Shanwei Co., Ltd.

Table-2: Candidate List of Substances of Very High Concern (SVHC 33rd - 247 items)

Item	Substance Name	EC No.	CAS No.	Date of Inclusion
1	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	2008-Oct-28
2	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2	2008-Oct-28
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	2008-Oct-28
4	Anthracene	204-371-1	120-12-7	2008-Oct-28
5	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	2008-Oct-28
6	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	2008-Oct-28
7	Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9	2008-Oct-28
8	Cobalt dichloride	231-589-4	7646-79-9	2008-Oct-28
9	Diarsenic pentaoxide	215-116-9	1303-28-2	2008-Oct-28
10	Diarsenic trioxide	215-481-4	1327-53-3	2008-Oct-28
11	Dibutyl phthalate (DBP)	201-557-4	84-74-2	2008-Oct-28
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	-	-	2008-Oct-28
	Hexabromocyclododecane	247-148-4	25637-99-4	
	1,2,5,6,9,10-hexabromocyclododecane	221-695-9	3194-55-6	
	alpha-hexabromocyclododecane	-	134237-50-6	
	beta-hexabromocyclododecane	-	134237-51-7	
	gamma-hexabromocyclododecane	-	134237-52-8	
13	Lead hydrogen arsenate	232-064-2	7784-40-9	2008-Oct-28
14	Sodium dichromate	234-190-3	10588-01-9, 7789-12-0	2008-Oct-28
15	Triethyl arsenate	427-700-2	15606-95-8	2008-Oct-28
16	2,4-dinitrotoluene	204-450-0	121-14-2	2010-Jan-13
17	Anthracene oil	292-602-7	90640-80-5	2010-Jan-13
18	Anthracene oil, anthracene paste	292-603-2	90640-81-6	2010-Jan-13
19	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	2010-Jan-13
20	Anthracene oil, anthracene paste, distn. Lights	295-278-5	91995-17-4	2010-Jan-13
21	Anthracene oil, anthracene-low	292-604-8	90640-82-7	2010-Jan-13
22	Diisobutyl phthalate	201-553-2	84-69-5	2010-Jan-13
23	Lead chromate	231-846-0	7758-97-6	2010-Jan-13
24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	2010-Jan-13
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	2010-Jan-13
26	Pitch, coal tar, high-temp.	266-028-2	65996-93-2	2010-Jan-13
27	Tris(2-chloroethyl) phosphate	204-118-5	115-96-8	2010-Jan-13
28	Acrylamide	201-173-7	79-06-1	2010-Mar-30
29	Ammonium dichromate	232-143-1	7789-09-5	2010-Jun-18
30	Boric acid	233-139-2	10043-35-3	2010-Jun-18
	Boric acid, crude natural	234-343-4	11113-50-1	
31	Disodium tetraborate, anhydrous	215-540-4	12179-04-3, 1303-96-4, 1330-43-4	2010-Jun-18
32	Potassium chromate	232-140-5	7789-00-6	2010-Jun-18
33	Potassium dichromate	231-906-6	7778-50-9	2010-Jun-18
34	Sodium chromate	231-889-5	7775-11-3	2010-Jun-18
35	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	2010-Jun-18
36	Trichloroethylene	201-167-4	79-01-6	2010-Jun-18
37	2-ethoxyethanol	203-804-1	110-80-5	2010-Dec-15
38	2-methoxyethanol	203-713-7	109-86-4	2010-Dec-15
39	Acids generated from chromium trioxide and their oligomers	-	-	2010-Dec-15
	Dichromic acid	236-881-5	7738-94-5	
	Oligomers of chromic acid and dichromic acid	-	-	
	Chromic acid	231-801-5	13530-68-2	
40	Chromium trioxide	215-607-8	1333-82-0	2010-Dec-15
41	Cobalt(II) carbonate	208-169-4	513-79-1	2010-Dec-15
42	Cobalt(II) diacetate	200-755-8	71-48-7	2010-Dec-15
43	Cobalt(II) dinitrate	233-402-1	10141-05-6	2010-Dec-15
44	Cobalt(II) sulphate	233-334-2	10124-43-3	2010-Dec-15
45	1,2,3-trichloropropane	202-486-1	96-18-4	2011-Jun-20
46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	2011-Jun-20
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	2011-Jun-20
48	1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4	2011-Jun-20
49	2-ethoxyethyl acetate	203-839-2	111-15-9	2011-Jun-20
50	Hydrazine	206-114-9	302-01-2, 7803-57-8	2011-Jun-20
51	Strontium chromate	232-142-6	7789-06-2	2011-Jun-20
52	1,2-dichloroethane	203-458-1	107-06-2	2011-Dec-19

Table-2: Candidate List of Substances of Very High Concern (SVHC 33rd - 247 items)

Item	Substance Name	EC No.	CAS No.	Date of Inclusion
53	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	2011-Dec-19
54	2-Methoxyaniline, o-Anisidine	201-963-1	90-04-0	2011-Dec-19
55	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	2011-Dec-19
56	Aluminosilicate Refractory Ceramic Fibres <i>[are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight]</i>	-	-	2011-Dec-19
57	Arsenic acid	231-901-9	7778-39-4	2011-Dec-19
58	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	2011-Dec-19
59	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	2011-Dec-19
60	Calcium arsenate	231-904-5	7778-44-1	2011-Dec-19
61	Dichromium tris(chromate)	246-356-2	24613-89-6	2011-Dec-19
62	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	2011-Dec-19
63	Lead diazide, Lead azide	236-542-1	13424-46-9	2011-Dec-19
64	Lead dipicrate	229-335-2	6477-64-1	2011-Dec-19
65	Lead styphnate	239-290-0	15245-44-0	2011-Dec-19
66	N,N-dimethylacetamide	204-826-4	127-19-5	2011-Dec-19
67	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	2011-Dec-19
68	Phenolphthalein	201-004-7	77-09-8	2011-Dec-19
69	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	2011-Dec-19
70	Trilead diarsenate	222-979-5	3687-31-8	2011-Dec-19
71	Zirconia Aluminosilicate Refractory Ceramic Fibres <i>[are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight]</i>	-	-	2011-Dec-19
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	203-977-3	112-49-2	2012-Jun-18
73	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	2012-Jun-18
74	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	2012-Jun-18
75	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	423-400-0	59653-74-6	2012-Jun-18
76	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol <i>[with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>	209-218-2	561-41-1	2012-Jun-18
77	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	2012-Jun-18
78	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) <i>[with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>	208-953-6	548-62-9	2012-Jun-18
79	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) <i>[with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>	219-943-6	2580-56-5	2012-Jun-18
80	Diboron trioxide	215-125-8	1303-86-2	2012-Jun-18
81	Formamide	200-842-0	75-12-7	2012-Jun-18
82	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	2012-Jun-18
83	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	2012-Jun-18
84	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) <i>[with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>	229-851-8	6786-83-0	2012-Jun-18
85	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	284-032-2	84777-06-0	2012-Dec-19
86	1,2-diethoxyethane	211-076-1	629-14-1	2012-Dec-19
87	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	2012-Dec-19

Table-2: Candidate List of Substances of Very High Concern (SVHC 33rd - 247 items)

Item	Substance Name	EC No.	CAS No.	Date of Inclusion
88	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	2012-Dec-19
89	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	2012-Dec-19
90	4,4'-oxydianiline and its salts	202-977-0	101-80-4	2012-Dec-19
91	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	-	-	2012-Dec-19
92	4-aminoazobenzene	200-453-6	60-09-3	2012-Dec-19
93	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	2012-Dec-19
94	4-Nonylphenol, branched and linear <i>[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]</i>	-	-	2012-Dec-19
95	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	2012-Dec-19
96	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	2012-Dec-19
97	Acetic acid, lead salt, basic	257-175-3	51404-69-4	2012-Dec-19
98	Biphenyl-4-ylamine	202-177-1	92-67-1	2012-Dec-19
99	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	214-604-9	1163-19-5	2012-Dec-19
100	Cyclohexane-1,2-dicarboxylic anhydride <i>[all possible combinations of the cis- and trans-isomers]</i> cis-cyclohexane-1,2-dicarboxylic anhydride Cyclohexane-1,2-dicarboxylic anhydride trans-cyclohexane-1,2-dicarboxylic anhydride	- 236-086-3 201-604-9 238-009-9	- 13149-00-3 85-42-7 14166-21-3	2012-Dec-19
101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	204-650-8	123-77-3	2012-Dec-19
102	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	2012-Dec-19
103	Diethyl sulphate	200-589-6	64-67-5	2012-Dec-19
104	Diisopentyl phthalate	210-088-4	605-50-5	2012-Dec-19
105	Dimethyl sulphate	201-058-1	77-78-1	2012-Dec-19
106	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	2012-Dec-19
107	Dioxobis(stearato)trilead	235-702-8	12578-12-0	2012-Dec-19
108	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	2012-Dec-19
109	Furan	203-727-3	110-00-9	2012-Dec-19
110	Henicosaflluoroundecanoic acid	218-165-4	2058-94-8	2012-Dec-19
111	Heptacosaflluorotetradecanoic acid	206-803-4	376-06-7	2012-Dec-19
112	Hexahydromethylphthalic anhydride <i>[including cis- and trans- stereo isomeric forms and all possible combinations of the isomers]</i> Hexahydro-4-methylphthalic anhydride Hexahydro-3-methylphthalic anhydride Hexahydro-1-methylphthalic anhydride Hexahydromethylphthalic anhydride	- 243-072-0 260-566-1 256-356-4 247-094-1	- 19438-60-9 57110-29-9 48122-14-1 25550-51-0	2012-Dec-19
113	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	2012-Dec-19
114	Lead cyanamidate	244-073-9	20837-86-9	2012-Dec-19
115	Lead dinitrate	233-245-9	10099-74-8	2012-Dec-19
116	Lead monoxide (lead oxide)	215-267-0	1317-36-8	2012-Dec-19
117	Lead oxide sulfate	234-853-7	12036-76-9	2012-Dec-19
118	Lead titanium trioxide	235-038-9	12060-00-3	2012-Dec-19
119	Lead titanium zirconium oxide	235-727-4	12626-81-2	2012-Dec-19
120	Methoxyacetic acid	210-894-6	625-45-6	2012-Dec-19
121	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	2012-Dec-19
122	N,N-dimethylformamide	200-679-5	68-12-2	2012-Dec-19
123	N-methylacetamide	201-182-6	79-16-3	2012-Dec-19
124	N-pentyl-isopentylphthalate	-	776297-69-9	2012-Dec-19
125	o-aminoazotoluene	202-591-2	97-56-3	2012-Dec-19
126	o-toluidine	202-429-0	95-53-4	2012-Dec-19
127	Orange lead (lead tetroxide)	215-235-6	1314-41-6	2012-Dec-19
128	Pentacosaflluorotridecanoic acid	276-745-2	72629-94-8	2012-Dec-19
129	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	2012-Dec-19
130	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	2012-Dec-19
131	Silicic acid (H₂Si₂O₅), barium salt (1:1), lead-doped <i>[with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD), the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]</i>	272-271-5	68784-75-8	2012-Dec-19
132	Silicic acid, lead salt	234-363-3	11120-22-2	2012-Dec-19

Table-2: Candidate List of Substances of Very High Concern (SVHC 33rd - 247 items)

Item	Substance Name	EC No.	CAS No.	Date of Inclusion
133	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	2012-Dec-19
134	Tetraethyllead	201-075-4	78-00-2	2012-Dec-19
135	Tetralead trioxide sulphate	235-380-9	12202-17-4	2012-Dec-19
136	Tricosafuorododecanoic acid	206-203-2	307-55-1	2012-Dec-19
137	Trilead bis(carbonate) dihydroxide	215-290-6	1319-46-6	2012-Dec-19
138	Trilead dioxide phosphonate	235-252-2	12141-20-7	2012-Dec-19
139	4-Nonylphenol, branched and linear, ethoxylated <i>[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, which include any of the individual isomers and/or combinations thereof]</i>	-	-	2013-Jun-20
140	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	2013-Jun-20
141	Cadmium	231-152-8	7440-43-9	2013-Jun-20
142	Cadmium oxide	215-146-2	1306-19-0	2013-Jun-20
143	Dipentyl phthalate (DPP)	205-017-9	131-18-0	2013-Jun-20
144	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	2013-Jun-20
145	Cadmium sulphide	215-147-8	1306-23-6	2013-Dec-16
146	Dihexyl phthalate	201-559-5	84-75-3	2013-Dec-16
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	2013-Dec-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 (C.I. Direct Black 38)	217-710-3	1937-37-7	2013-Dec-16
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	2013-Dec-16
150	Lead di(acetate)	206-104-4	301-04-2	2013-Dec-16
151	Trixylyl phosphate	246-677-8	25155-23-1	2013-Dec-16
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	2014-Jun-16
153	Cadmium chloride	233-296-7	10108-64-2	2014-Jun-16
154	Sodium perborate perboric acid, sodium salt	239-172-9 234-390-0	15120-21-5 11138-47-9	2014-Jun-16
155	Sodium peroxometaborate	231-556-4	7632-04-4	2014-Jun-16
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	2014-Dec-17
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	2014-Dec-17
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	2014-Dec-17
159	Cadmium fluoride	232-222-0	7790-79-6	2014-Dec-17
160	Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	2014-Dec-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-Dec-17
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters <i>[with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)]</i> 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	- 272-013-1 271-094-0	- 68648-93-1 68515-51-5	2015-Jun-15
163	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] <i>[covering any of the individual stereoisomers of [1] and [2] or any combination thereof]</i>	-	-	2015-Jun-15
164	1,3-propanesultone	214-317-9	1120-71-4	2015-Dec-17
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	2015-Dec-17
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	2015-Dec-17
167	Nitrobenzene	202-716-0	98-95-3	2015-Dec-17
168	Perfluorononan-1-oic-acid Sodium salts of perfluorononan-1-oic-acid Ammonium salts of perfluorononan-1-oic-acid	206-801-3 - -	375-95-1 21049-39-8 4149-60-4	2015-Dec-17
169	Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5	50-32-8	2016-Jun-20
170	4,4'-isopropylidenediphenol Bisphenol A; BPA	201-245-8	80-05-7	2017-Jan-12

Table-2: Candidate List of Substances of Very High Concern (SVHC 33rd - 247 items)

Item	Substance Name	EC No.	CAS No.	Date of Inclusion
171	4-heptylphenol, branched and linear <i>[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]</i>	-	-	2017-Jan-12
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Nonadecafluorodecanoic acid Decanoic acid, nonadecafluoro-, sodium salt Ammonium nonadecafluorodecanoate	- 206-400-3 - 221-470-5	- 335-76-2 3830-45-3 3108-42-7	2017-Jan-12
173	p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	2017-Jan-12
174	Perfluorohexane-1-sulphonic acid and its salts PFHxS	-	-	2017-Jul-07
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1.6,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"[™]) <i>[covering any of its individual anti- and syn-isomers or any combination thereof]</i>	-	-	2018-Jan-15
176	Benz[a]anthracene	200-280-6	56-55-3, 1718-53-2	2018-Jan-15
177	Cadmium carbonate	208-168-9	513-78-0	2018-Jan-15
178	Cadmium hydroxide	244-168-5	21041-95-2	2018-Jan-15
179	Cadmium nitrate	233-710-6	10022-68-1, 10325-94-7	2018-Jan-15
180	Chrysene	205-923-4	218-01-9, 1719-03-5	2018-Jan-15
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) <i>[with ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl)]</i>	-	-	2018-Jan-15
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA	209-008-0	552-30-7	2018-Jun-27
183	Benzo[ghi]perylene	205-883-8	191-24-2	2018-Jun-27
184	Decamethylcyclopentasiloxane D5	208-764-9	541-02-6	2018-Jun-27
185	Dicyclohexyl phthalate DCHP	201-545-9	84-61-7	2018-Jun-27
186	Disodium octaborate	234-541-0	12008-41-2	2018-Jun-27
187	Dodecamethylcyclohexasiloxane D6	208-762-8	540-97-6	2018-Jun-27
188	Ethylenediamine EDA	203-468-6	107-15-3	2018-Jun-27
189	Lead	231-100-4	7439-92-1	2018-Jun-27
190	Octamethylcyclotetrasiloxane D4	209-136-7	556-67-2	2018-Jun-27
191	Terphenyl, hydrogenated	262-967-7	61788-32-7	2018-Jun-27
192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one 3-benzylidene camphor; 3-BC	239-139-9	15087-24-8	2019-Jan-15
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	2019-Jan-15
194	Benzo[k]fluoranthene	205-916-6	207-08-9	2019-Jan-15
195	Fluoranthene	205-912-4	206-44-0; 93951-69-0	2019-Jan-15
196	Phenanthrene	201-581-5	85-01-8	2019-Jan-15
197	Pyrene	204-927-3	129-00-0; 1718-52-1	2019-Jan-15
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof	-	-	2019-Jul-16
199	2-methoxyethyl acetate	203-772-9	110-49-6	2019-Jul-16
200	4-tert-butylphenol	202-679-0	98-54-4	2019-Jul-16
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	2019-Jul-16
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	2020-Jan-16
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6	71868-10-5	2020-Jan-16
204	Diisohexyl phthalate	276-090-2	71850-09-4	2020-Jan-16
205	Perfluorobutane sulfonic acid (PFBS) and its salt	-	-	2020-Jan-16

Table-2: Candidate List of Substances of Very High Concern (SVHC 33rd - 247 items)

Item	Substance Name	EC No.	CAS No.	Date of Inclusion
206	1-vinylimidazole	214-012-0	1072-63-5	2020-Jun-25
207	2-methylimidazole	211-765-7	693-98-1	2020-Jun-25
208	Butyl 4-hydroxybenzoate	202-318-7	94-26-8	2020-Jun-25
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	2020-Jun-25
210	Bis(2-(2-methoxyethoxy)ethyl)ether	205-594-7	143-24-8	2021-Jan-19
211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety Stannane, dioctyl-, bis(coco acyloxy) derivs. dioctyltin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs. Diocetyl tin dilaurate	- 293-901-5 - 222-883-3	- 91648-39-4 - 3648-18-8	2021-Jan-19
212	1,4-dioxane	204-661-8	123-91-1	2021-Jul-08
213	2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA) 2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA) 3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,2-bis(bromomethyl)propane-1,3-diol (BMP) 2,3-dibromo-1-propanol (2,3-DBPA)	- 253-057-0 - 221-967-7 202-480-9	- 36483-57-5 1522-92-5 3296-90-0 96-13-9	2021-Jul-08
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers (2R)-3-(4-tert-butylphenyl)-2-methylpropanal 2-(4-tert-butylbenzyl)propionaldehyde (2S)-3-(4-tert-butylphenyl)-2-methylpropanal	- - 201-289-8 -	- 75166-31-3 80-54-6 75166-30-2	2021-Jul-08
215	4,4'-(1-methylpropylidene)bisphenol	201-025-1	77-40-7	2021-Jul-08
216	Glutaral	203-856-5	111-30-8	2021-Jul-08
217	Medium-chain chlorinated paraffins (MCCP) <i>[UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]</i> Alkanes, C14-16, chloro Alkanes, C14-17, chloro di-, tri- and tetrachlorotetradecane Tetradecane, chloro derivs.	- - 287-477-0 950-299-5 -	- 1372804-76-6 85535-85-9 - 198840-65-2	2021-Jul-08
218	Orthoboric acid, sodium salt boric acid (H3BO3), sodium salt, hydrate Boric acid (H3BO3), disodium salt Trisodium orthoborate Boric acid, sodium salt Orthoboric acid, sodium salt Boric acid (H3BO3), sodium salt (1:1)	- - - 238-253-6 215-604-1 237-560-2 -	- 25747-83-5 22454-04-2 14312-40-4 1333-73-9 13840-56-7 14890-53-0	2021-Jul-08
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) Phenol, dodecyl-, branched Phenol, (tetrapropenyl) derivatives Phenol, 4-dodecyl, branched 4-isododecylphenol Phenol, tetrapropylene- Phenol, 4-isododecyl-	- 310-154-3 - - - - -	- 121158-58-5 74499-35-7 210555-94-5 27459-10-5 57427-55-1 27147-75-7	2021-Jul-08
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	- - - 253-242-6 - - - -	1782069-81-1 95342-41-9 852541-25-4 36861-47-9 741687-98-9 852541-30-1 852541-21-0	2022-Jan-17
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	204-327-1	119-47-1	2022-Jan-17

Table-2: Candidate List of Substances of Very High Concern (SVHC 33rd - 247 items)

Item	Substance Name	EC No.	CAS No.	Date of Inclusion
222	S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate X4261	401-850-9	255881-94-8	2022-Jan-17
223	tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4	2022-Jan-17
224	N-(hydroxymethyl)acrylamide	213-103-2	924-42-5	2022-Jun-10
225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	253-692-3	37853-59-1	2023-Jan-17
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	201-236-9	79-94-7	2023-Jan-17
227	4,4'-sulphonyldiphenol	201-250-5	80-09-1	2023-Jan-17
228	Barium diboron tetraoxide	237-222-4	13701-59-2	2023-Jan-17
229	bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof Bis(2-ethylhexyl) tetrabromophthalate	- 247-426-5	- 26040-51-7	2023-Jan-17
230	Isobutyl 4-hydroxybenzoate	224-208-8	4247-02-3	2023-Jan-17
231	Melamine	203-615-4	108-78-1	2023-Jan-17
232	Perfluoroheptanoic acid and its salts Ammonium perfluoroheptanoate potassium perfluoroheptanoate Perfluoroheptanoic acid Sodium perfluoroheptanoate	- 228-098-2 - 206-798-9 243-518-4	- 6130-43-4 21049-36-5 375-85-9 20109-59-5	2023-Jan-17
233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	473-390-7	-	2023-Jan-17
234	Bis(4-chlorophenyl) sulphone	201-247-9	80-07-9	2023-Jun-14
235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	278-355-8	75980-60-8	2023-Jun-14
236	2,4,6-tri-tert-butylphenol	211-989-5	732-26-3	2024-Jan-23
237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	221-573-5	3147-75-9	2024-Jan-23
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	438-340-0	119344-86-4	2024-Jan-23
239	Bumetizole (UV-326)	223-445-4	3896-11-5	2024-Jan-23
240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol Phenol, methylstyrenated	700-960-7 270-966-8	- 68512-30-1	2024-Jan-23
241	Bis(α,α-dimethylbenzyl) peroxide	201-279-3	80-43-3	2024-Jun-27
242	Triphenyl phosphate	204-112-2	115-86-6	2024-Nov-07
243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	701-118-1	2156592-54-8	2025-Jan-21
244	O,O,O-triphenyl phosphorothioate	209-909-9	597-82-0	2025-Jan-21
245	Octamethyltrisiloxane	203-497-4	107-51-7	2025-Jan-21
246	Perfluamine	206-420-2	338-83-0	2025-Jan-21
247	reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	421-820-9	192268-65-8	2025-Jan-21

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