

## REACH Compliance Declaration (SVHC 32<sup>nd</sup> - 242)

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 32<sup>nd</sup> - 242 items, listed in Table-2), last updated on 2024-Nov-07, 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 <sup>Note 1</sup>	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 <sup>Note 2</sup>	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 32<sup>nd</sup> - 242 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 32<sup>nd</sup> - 242 items)**

Item	Substance Name	EC No.	CAS No.	Date of Inclusion
53	<b>2,2'-dichloro-4,4'-methylenedianiline</b>	202-918-9	101-14-4	2011-Dec-19
54	<b>2-Methoxyaniline, o-Anisidine</b>	201-963-1	90-04-0	2011-Dec-19
55	<b>4-(1,1,3,3-tetramethylbutyl)phenol</b>	205-426-2	140-66-9	2011-Dec-19
56	<b>Aluminosilicate Refractory Ceramic Fibres</b> <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 (Na<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content less or equal to 18% by weight]</i>	-	-	2011-Dec-19
57	<b>Arsenic acid</b>	231-901-9	7778-39-4	2011-Dec-19
58	<b>Bis(2-methoxyethyl) ether</b>	203-924-4	111-96-6	2011-Dec-19
59	<b>Bis(2-methoxyethyl) phthalate</b>	204-212-6	117-82-8	2011-Dec-19
60	<b>Calcium arsenate</b>	231-904-5	7778-44-1	2011-Dec-19
61	<b>Dichromium tris(chromate)</b>	246-356-2	24613-89-6	2011-Dec-19
62	<b>Formaldehyde, oligomeric reaction products with aniline</b>	500-036-1	25214-70-4	2011-Dec-19
63	<b>Lead diazide, Lead azide</b>	236-542-1	13424-46-9	2011-Dec-19
64	<b>Lead dipicrate</b>	229-335-2	6477-64-1	2011-Dec-19
65	<b>Lead styphnate</b>	239-290-0	15245-44-0	2011-Dec-19
66	<b>N,N-dimethylacetamide</b>	204-826-4	127-19-5	2011-Dec-19
67	<b>Pentazinc chromate octahydroxide</b>	256-418-0	49663-84-5	2011-Dec-19
68	<b>Phenolphthalein</b>	201-004-7	77-09-8	2011-Dec-19
69	<b>Potassium hydroxyoctaoxidizincatedichromate</b>	234-329-8	11103-86-9	2011-Dec-19
70	<b>Trilead diarsenate</b>	222-979-5	3687-31-8	2011-Dec-19
71	<b>Zirconia Aluminosilicate Refractory Ceramic Fibres</b> <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 (Na<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content less or equal to 18% by weight]</i>	-	-	2011-Dec-19
72	<b>1,2-bis(2-methoxyethoxy)ethane (TEGDME,triglyme)</b>	203-977-3	112-49-2	2012-Jun-18
73	<b>1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME)</b>	203-794-9	110-71-4	2012-Jun-18
74	<b>1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)</b>	219-514-3	2451-62-9	2012-Jun-18
75	<b>1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)</b>	423-400-0	59653-74-6	2012-Jun-18
76	<b>4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol</b> <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	<b>4,4'-bis(dimethylamino)benzophenone (Michler's ketone)</b>	202-027-5	90-94-8	2012-Jun-18
78	<b>[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)</b> <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	<b>[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)</b> <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	<b>Diboron trioxide</b>	215-125-8	1303-86-2	2012-Jun-18
81	<b>Formamide</b>	200-842-0	75-12-7	2012-Jun-18
82	<b>Lead(II) bis(methanesulfonate)</b>	401-750-5	17570-76-2	2012-Jun-18
83	<b>N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)</b>	202-959-2	101-61-1	2012-Jun-18
84	<b>α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)</b> <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	<b>1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear</b>	284-032-2	84777-06-0	2012-Dec-19
86	<b>1,2-diethoxyethane</b>	211-076-1	629-14-1	2012-Dec-19
87	<b>1-bromopropane (n-propyl bromide)</b>	203-445-0	106-94-5	2012-Dec-19

**Table-2: Candidate List of Substances of Very High Concern (SVHC 32<sup>nd</sup> - 242 items)**

Item	Substance Name	EC No.	CAS No.	Date of Inclusion
88	<b>3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine</b>	421-150-7	143860-04-2	2012-Dec-19
89	<b>4,4'-methylenedi-o-toluidine</b>	212-658-8	838-88-0	2012-Dec-19
90	<b>4,4'-oxydianiline and its salts</b>	202-977-0	101-80-4	2012-Dec-19
91	<b>4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated</b> <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	-	-	2012-Dec-19
92	<b>4-aminoazobenzene</b>	200-453-6	60-09-3	2012-Dec-19
93	<b>4-methyl-m-phenylenediamine (toluene-2,4-diamine)</b>	202-453-1	95-80-7	2012-Dec-19
94	<b>4-Nonylphenol, branched and linear</b> <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	<b>6-methoxy-m-toluidine (p-cresidine)</b>	204-419-1	120-71-8	2012-Dec-19
96	<b>[Phthalato(2-)]dioxotrilead</b>	273-688-5	69011-06-9	2012-Dec-19
97	<b>Acetic acid, lead salt, basic</b>	257-175-3	51404-69-4	2012-Dec-19
98	<b>Biphenyl-4-ylamine</b>	202-177-1	92-67-1	2012-Dec-19
99	<b>Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)</b>	214-604-9	1163-19-5	2012-Dec-19
100	<b>Cyclohexane-1,2-dicarboxylic anhydride</b> <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	<b>Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)</b>	204-650-8	123-77-3	2012-Dec-19
102	<b>Dibutyltin dichloride (DBTC)</b>	211-670-0	683-18-1	2012-Dec-19
103	<b>Diethyl sulphate</b>	200-589-6	64-67-5	2012-Dec-19
104	<b>Diisopentyl phthalate</b>	210-088-4	605-50-5	2012-Dec-19
105	<b>Dimethyl sulphate</b>	201-058-1	77-78-1	2012-Dec-19
106	<b>Dinoseb (6-sec-butyl-2,4-dinitrophenol)</b>	201-861-7	88-85-7	2012-Dec-19
107	<b>Dioxobis(stearato)trilead</b>	235-702-8	12578-12-0	2012-Dec-19
108	<b>Fatty acids, C16-18, lead salts</b>	292-966-7	91031-62-8	2012-Dec-19
109	<b>Furan</b>	203-727-3	110-00-9	2012-Dec-19
110	<b>Henicosaflluoroundecanoic acid</b>	218-165-4	2058-94-8	2012-Dec-19
111	<b>Heptacosaflluorotetradecanoic acid</b>	206-803-4	376-06-7	2012-Dec-19
112	<b>Hexahydromethylphthalic anhydride</b> <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	<b>Lead bis(tetrafluoroborate)</b>	237-486-0	13814-96-5	2012-Dec-19
114	<b>Lead cyanamidate</b>	244-073-9	20837-86-9	2012-Dec-19
115	<b>Lead dinitrate</b>	233-245-9	10099-74-8	2012-Dec-19
116	<b>Lead monoxide (lead oxide)</b>	215-267-0	1317-36-8	2012-Dec-19
117	<b>Lead oxide sulfate</b>	234-853-7	12036-76-9	2012-Dec-19
118	<b>Lead titanium trioxide</b>	235-038-9	12060-00-3	2012-Dec-19
119	<b>Lead titanium zirconium oxide</b>	235-727-4	12626-81-2	2012-Dec-19
120	<b>Methoxyacetic acid</b>	210-894-6	625-45-6	2012-Dec-19
121	<b>Methyloxirane (Propylene oxide)</b>	200-879-2	75-56-9	2012-Dec-19
122	<b>N,N-dimethylformamide</b>	200-679-5	68-12-2	2012-Dec-19
123	<b>N-methylacetamide</b>	201-182-6	79-16-3	2012-Dec-19
124	<b>N-pentyl-isopentylphthalate</b>	-	776297-69-9	2012-Dec-19
125	<b>o-aminoazotoluene</b>	202-591-2	97-56-3	2012-Dec-19
126	<b>o-toluidine</b>	202-429-0	95-53-4	2012-Dec-19
127	<b>Orange lead (lead tetroxide)</b>	215-235-6	1314-41-6	2012-Dec-19
128	<b>Pentacosaflluorotridecanoic acid</b>	276-745-2	72629-94-8	2012-Dec-19
129	<b>Pentalead tetraoxide sulphate</b>	235-067-7	12065-90-6	2012-Dec-19
130	<b>Pyrochlore, antimony lead yellow</b>	232-382-1	8012-00-8	2012-Dec-19
131	<b>Silicic acid (H<sub>2</sub>Si<sub>2</sub>O<sub>5</sub>), barium salt (1:1), lead-doped</b> <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	<b>Silicic acid, lead salt</b>	234-363-3	11120-22-2	2012-Dec-19

**Table-2: Candidate List of Substances of Very High Concern (SVHC 32<sup>nd</sup> - 242 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	<b>4-Nonylphenol, branched and linear, ethoxylated</b> <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	<b>Ammonium pentadecafluorooctanoate (APFO)</b>	223-320-4	3825-26-1	2013-Jun-20
141	<b>Cadmium</b>	231-152-8	7440-43-9	2013-Jun-20
142	<b>Cadmium oxide</b>	215-146-2	1306-19-0	2013-Jun-20
143	<b>Dipentyl phthalate (DPP)</b>	205-017-9	131-18-0	2013-Jun-20
144	<b>Pentadecafluorooctanoic acid (PFOA)</b>	206-397-9	335-67-1	2013-Jun-20
145	<b>Cadmium sulphide</b>	215-147-8	1306-23-6	2013-Dec-16
146	<b>Dihexyl phthalate</b>	201-559-5	84-75-3	2013-Dec-16
147	<b>Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)</b>	209-358-4	573-58-0	2013-Dec-16
148	<b>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)</b>	217-710-3	1937-37-7	2013-Dec-16
149	<b>Imidazolidine-2-thione (2-imidazoline-2-thiol)</b>	202-506-9	96-45-7	2013-Dec-16
150	<b>Lead di(acetate)</b>	206-104-4	301-04-2	2013-Dec-16
151	<b>Trixylyl phosphate</b>	246-677-8	25155-23-1	2013-Dec-16
152	<b>1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear</b>	271-093-5	68515-50-4	2014-Jun-16
153	<b>Cadmium chloride</b>	233-296-7	10108-64-2	2014-Jun-16
154	<b>Sodium perborate perboric acid, sodium salt</b>	239-172-9 234-390-0	15120-21-5 11138-47-9	2014-Jun-16
155	<b>Sodium peroxometaborate</b>	231-556-4	7632-04-4	2014-Jun-16
156	<b>2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)</b>	247-384-8	25973-55-1	2014-Dec-17
157	<b>2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)</b>	223-346-6	3846-71-7	2014-Dec-17
158	<b>2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)</b>	239-622-4	15571-58-1	2014-Dec-17
159	<b>Cadmium fluoride</b>	232-222-0	7790-79-6	2014-Dec-17
160	<b>Cadmium sulphate</b>	233-331-6	10124-36-4, 31119-53-6	2014-Dec-17
161	<b>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)</b>	-	-	2014-Dec-17
162	<b>1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters</b> <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	<b>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]</b> <i>[covering any of the individual stereoisomers of [1] and [2] or any combination thereof]</i>	-	-	2015-Jun-15
164	<b>1,3-propanesultone</b>	214-317-9	1120-71-4	2015-Dec-17
165	<b>2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)</b>	223-383-8	3864-99-1	2015-Dec-17
166	<b>2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)</b>	253-037-1	36437-37-3	2015-Dec-17
167	<b>Nitrobenzene</b>	202-716-0	98-95-3	2015-Dec-17
168	<b>Perfluorononan-1-oic-acid Sodium salts of perfluorononan-1-oic-acid Ammonium salts of perfluorononan-1-oic-acid</b>	206-801-3 - -	375-95-1 21049-39-8 4149-60-4	2015-Dec-17
169	<b>Benzo[def]chrysene (Benzo[a]pyrene)</b>	200-028-5	50-32-8	2016-Jun-20
170	<b>4,4'-isopropylidenediphenol</b> Bisphenol A; BPA	201-245-8	80-05-7	2017-Jan-12

**Table-2: Candidate List of Substances of Very High Concern (SVHC 32<sup>nd</sup> - 242 items)**

Item	Substance Name	EC No.	CAS No.	Date of Inclusion
171	<b>4-heptylphenol, branched and linear</b> <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	<b>Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts</b> 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	<b>p-(1,1-dimethylpropyl)phenol</b>	201-280-9	80-46-6	2017-Jan-12
174	<b>Perfluorohexane-1-sulphonic acid and its salts</b> PFHxS	-	-	2017-Jul-07
175	<b>1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1.6,9.0.2,13.0.5,10]octadeca-7,15-diene ("Dechlorane Plus"<sup>™</sup>)</b> <i>[covering any of its individual anti- and syn-isomers or any combination thereof]</i>	-	-	2018-Jan-15
176	<b>Benz[a]anthracene</b>	200-280-6	56-55-3, 1718-53-2	2018-Jan-15
177	<b>Cadmium carbonate</b>	208-168-9	513-78-0	2018-Jan-15
178	<b>Cadmium hydroxide</b>	244-168-5	21041-95-2	2018-Jan-15
179	<b>Cadmium nitrate</b>	233-710-6	10022-68-1, 10325-94-7	2018-Jan-15
180	<b>Chrysene</b>	205-923-4	218-01-9, 1719-03-5	2018-Jan-15
181	<b>Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)</b> <i>[with ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl)]</i>	-	-	2018-Jan-15
182	<b>Benzene-1,2,4-tricarboxylic acid 1,2 anhydride</b> trimellitic anhydride; TMA	209-008-0	552-30-7	2018-Jun-27
183	<b>Benzo[ghi]perylene</b>	205-883-8	191-24-2	2018-Jun-27
184	<b>Decamethylcyclopentasiloxane</b> D5	208-764-9	541-02-6	2018-Jun-27
185	<b>Dicyclohexyl phthalate</b> DCHP	201-545-9	84-61-7	2018-Jun-27
186	<b>Disodium octaborate</b>	234-541-0	12008-41-2	2018-Jun-27
187	<b>Dodecamethylcyclohexasiloxane</b> D6	208-762-8	540-97-6	2018-Jun-27
188	<b>Ethylenediamine</b> EDA	203-468-6	107-15-3	2018-Jun-27
189	<b>Lead</b>	231-100-4	7439-92-1	2018-Jun-27
190	<b>Octamethylcyclotetrasiloxane</b> D4	209-136-7	556-67-2	2018-Jun-27
191	<b>Terphenyl, hydrogenated</b>	262-967-7	61788-32-7	2018-Jun-27
192	<b>1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one</b> 3-benzylidene camphor; 3-BC	239-139-9	15087-24-8	2019-Jan-15
193	<b>2,2-bis(4'-hydroxyphenyl)-4-methylpentane</b>	401-720-1	6807-17-6	2019-Jan-15
194	<b>Benzo[k]fluoranthene</b>	205-916-6	207-08-9	2019-Jan-15
195	<b>Fluoranthene</b>	205-912-4	206-44-0; 93951-69-0	2019-Jan-15
196	<b>Phenanthrene</b>	201-581-5	85-01-8	2019-Jan-15
197	<b>Pyrene</b>	204-927-3	129-00-0; 1718-52-1	2019-Jan-15
198	<b>2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides</b> covering any of their individual isomers and combinations thereof	-	-	2019-Jul-16
199	<b>2-methoxyethyl acetate</b>	203-772-9	110-49-6	2019-Jul-16
200	<b>4-tert-butylphenol</b>	202-679-0	98-54-4	2019-Jul-16
201	<b>Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)</b>	-	-	2019-Jul-16
202	<b>2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone</b>	404-360-3	119313-12-1	2020-Jan-16
203	<b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b>	400-600-6	71868-10-5	2020-Jan-16
204	<b>Diisohexyl phthalate</b>	276-090-2	71850-09-4	2020-Jan-16
205	<b>Perfluorobutane sulfonic acid (PFBS) and its salt</b>	-	-	2020-Jan-16

**Table-2: Candidate List of Substances of Very High Concern (SVHC 32<sup>nd</sup> - 242 items)**

Item	Substance Name	EC No.	CAS No.	Date of Inclusion
206	<b>1-vinylimidazole</b>	214-012-0	1072-63-5	2020-Jun-25
207	<b>2-methylimidazole</b>	211-765-7	693-98-1	2020-Jun-25
208	<b>Butyl 4-hydroxybenzoate</b>	202-318-7	94-26-8	2020-Jun-25
209	<b>Dibutylbis(pentane-2,4-dionato-O,O')tin</b>	245-152-0	22673-19-4	2020-Jun-25
210	<b>Bis(2-(2-methoxyethoxy)ethyl)ether</b>	205-594-7	143-24-8	2021-Jan-19
211	<b>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</b> 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	<b>1,4-dioxane</b>	204-661-8	123-91-1	2021-Jul-08
213	<b>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)</b> 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	<b>2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers</b> (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	<b>4,4'-(1-methylpropylidene)bisphenol</b>	201-025-1	77-40-7	2021-Jul-08
216	<b>Glutaral</b>	203-856-5	111-30-8	2021-Jul-08
217	<b>Medium-chain chlorinated paraffins (MCCP)</b> <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	<b>Orthoboric acid, sodium salt</b> 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	<b>Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)</b> 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	<b>(±)-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)</b> (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	<b>6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol</b>	204-327-1	119-47-1	2022-Jan-17

**Table-2: Candidate List of Substances of Very High Concern (SVHC 32<sup>nd</sup> - 242 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

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