

環境關聯物質管理-有害物質

Environmental-Restricted Substances Management- Hazardous Substance

RoHS

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
1	Cadmium (Cd) and its compounds	-	Level 1	100 ppm (0.01 weight %)	Banned immediately
2	Lead (Pb) and its compounds	-	Level 1	1000 ppm (0.1 weight %)	Banned immediately
3	Mercury (Hg) and its compounds	-	Level 1	1000 ppm (0.1 weight %)	Banned immediately
4	Hexavalent Chromium (Cr VI) and its compounds	-	Level 1	1000 ppm (0.1 weight %)	Banned immediately
5	Polybrominated biphenyls (PBB)	-	Level 1	1000 ppm (0.1 weight %)	Banned immediately
6	Polybrominated diphenylethers (PBDE)	-	Level 1	1000 ppm (0.1 weight %)	Banned immediately
7	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	Level 1	1000 ppm (0.1 weight %)	Banned immediately
8	Benzyl butyl phthalate (BBP)	85-68-7	Level 1	1000 ppm (0.1 weight %)	Banned immediately
9	Dibutyl phthalate (DBP)	84-74-2	Level 1	1000 ppm (0.1 weight %)	Banned immediately
10	Di-isobutyl phthalate (DIBP)	84-69-5	Level 1	1000 ppm (0.1 weight %)	Banned immediately

無鹵素 Halogen-Free

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
1	Chlorine (Cl)	22537-15-1	Level 3	900 ppm	Banned immediately
2	Bromine (Br)	10097-32-2	Level 3	900 ppm	Banned immediately
3	Cl + Br	-	Level 3	1500 ppm	Banned immediately

高關注物質 REACH SVHC : (reference the latest version)

每年至少公告增修訂兩次高關注物質清單，供應商應自行關注並在其正式公告時完成相關調查。
若供應商生產之產品其含量超出時，必須主動通知台星科，相關參考網址如下：

At least two times of will be announced and revised annually, suppliers should pay attention to them and complete relevant investigations at the time of their official announcement. If exceeds the content, it must be notified to Winstek. The relevant reference website is as follows:

高度關注物質建議清單 (SVHC Proposed list)

<http://echa.europa.eu/web/guest/proposals-to-identify-substances-of-very-high-concern>

高關注物質候選清單 SVHC Candidate List table

<http://echa.europa.eu/web/guest/candidate-list-table>

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
1	Triethyl arsenate	15606-95-8	Level 1	1000 ppm (0.1 weight %)	2008/10/28
2	Sodium dichromate	7789-12-0, 10588-01-9	Level 1	1000 ppm (0.1 weight %)	2008/10/28
3	Lead hydrogen arsenate	7784-40-9	Level 1	1000 ppm (0.1 weight %)	2008/10/28
4	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	Level 1	Not Detected	2008/10/28 Customer's request
5	Dibutyl phthalate (DBP)	84-74-2	Level 1	1000 ppm (0.1 weight %)	2008/10/28
6	Diarsenic trioxide	1327-53-3	Level 1	1000 ppm (0.1 weight %)	2008/10/28
7	Diarsenic pentaoxide	1303-28-2	Level 1	1000 ppm (0.1 weight %)	2008/10/28
8	Bis(tributyltin) oxide (TBTO)	56-35-9	Level 1	1000 ppm (0.1 weight %)	2008/10/28
9	Benzyl butyl phthalate (BBP)	85-68-7	Level 1	1000 ppm (0.1 weight %)	2008/10/28
10	Anthracene	120-12-7	Level 1	1000 ppm (0.1 weight %)	2008/10/28
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	Level 1	Not Detected	2008/10/28 Customer's request
12	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	Level 1	1000 ppm (0.1 weight %)	2008/10/28
13	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	Level 1	1000 ppm (0.1 weight %)	2008/10/28
14	Tris(2-chloroethyl)phosphate	115-96-8	Level 1	1000 ppm (0.1 weight %)	2010/1/13
15	Pitch, coal tar, high temp.	65996-93-2	Level 1	1000 ppm (0.1 weight %)	2010/1/13
16	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	Level 1	1000 ppm (0.1 weight %)	2010/1/13

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
17	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	Level 1	1000 ppm (0.1 weight %)	2010/1/13
18	Lead chromate	7758-97-6	Level 1	1000 ppm (0.1 weight %)	2010/1/13
19	Diisobutyl phthalate (DIBP)	84-69-5	Level 1	1000 ppm (0.1 weight %)	2010/1/13
20	Anthracene oil, anthracene-low	90640-82-7	Level 1	1000 ppm (0.1 weight %)	2010/1/13
21	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	Level 1	1000 ppm (0.1 weight %)	2010/1/13
22	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	Level 1	1000 ppm (0.1 weight %)	2010/1/13
23	Anthracene oil, anthracene paste	90640-81-6	Level 1	1000 ppm (0.1 weight %)	2010/1/13
24	Anthracene oil	90640-80-5	Level 1	1000 ppm (0.1 weight %)	2010/1/13
25	2,4-Dinitrotoluene (2,4-DNT)	121-14-2	Level 1	1000 ppm (0.1 weight %)	2010/1/13
26	Acrylamide	79-06-1	Level 1	1000 ppm (0.1 weight %)	2010/3/30
27	Trichloroethylene	79-01-6	Level 1	1000 ppm (0.1 weight %)	2010/6/18
28	Tetraboron disodium heptaoxide, hydrate	12267-73-1	Level 1	1000 ppm (0.1 weight %)	2010/6/18
29	Sodium chromate	7775-11-3	Level 1	1000 ppm (0.1 weight %)	2010/6/18
30	Potassium dichromate	7778-50-9	Level 1	1000 ppm (0.1 weight %)	2010/6/18
31	Potassium chromate	7789-00-6	Level 1	1000 ppm (0.1 weight %)	2010/6/18
32	Disodium tetraborate, anhydrous	1303-96-4, 1330-43-4, 12179-04-3	Level 1	1000 ppm (0.1 weight %)	2010/6/18
33	Boric acid	10043-35-3, 11113-50-1	Level 1	1000 ppm (0.1 weight %)	2010/6/18
34	Ammonium dichromate	7789-9-5	Level 1	1000 ppm (0.1 weight %)	2010/6/18
35	Cobalt(II) sulphate	10124-43-3	Level 1	1000 ppm (0.1 weight %)	2010/12/15
36	Cobalt(II) dinitrate	10141-05-6	Level 1	1000 ppm (0.1 weight %)	2010/12/15
37	Cobalt(II) diacetate	71-48-7	Level 1	1000 ppm (0.1 weight %)	2010/12/15
38	Cobalt(II) carbonate	513-79-1	Level 1	1000 ppm (0.1 weight %)	2010/12/15

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39	Chromium trioxide	1333-82-0	Level 1	1000 ppm (0.1 weight %)	2010/12/15
40	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.	7738-94-5, 13530-68-2	Level 1	1000 ppm (0.1 weight %)	2010/12/15
41	2-Methoxyethanol	109-86-4	Level 1	1000 ppm (0.1 weight %)	2010/12/15
42	2-Ethoxyethanol	110-80-5	Level 1	1000 ppm (0.1 weight %)	2010/12/15
43	Strontium chromate	7789-6-2	Level 1	1000 ppm (0.1 weight %)	2011/6/20
44	Hydrazine	302-01-2, 7803-57-8	Level 1	1000 ppm (0.1 weight %)	2011/6/20
45	2-Ethoxyethyl acetate	111-15-9	Level 1	1000 ppm (0.1 weight %)	2011/6/20
46	1-Methyl-2-pyrrolidone (NMP)	872-50-4	Level 1	1000 ppm (0.1 weight %)	2011/6/20
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	Level 1	1000 ppm (0.1 weight %)	2011/6/20
48	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	Level 1	1000 ppm (0.1 weight %)	2011/6/20
49	1,2,3-trichloropropane	96-18-4	Level 1	1000 ppm (0.1 weight %)	2011/6/20
50	Cobalt dichloride	7646-79-9	Level 1	1000 ppm (0.1 weight %)	2011/6/20
51	Zirconia Aluminosilicate Refractory Ceramic Fibres 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 ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight	-	Level 1	1000 ppm (0.1 weight %)	2011/12/19
52	Trilead diarsenate	3687-31-8	Level 1	1000 ppm (0.1 weight %)	2011/12/19

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53	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	Level 1	1000 ppm (0.1 weight %)	2011/12/19
54	Phenolphthalein	77-09-8	Level 1	1000 ppm (0.1 weight %)	2011/12/19
55	Pentazinc chromate octahydroxide	49663-84-5	Level 1	1000 ppm (0.1 weight %)	2011/12/19
56	N,N-dimethylacetamide	127-19-5	Level 1	1000 ppm (0.1 weight %)	2011/12/19
57	Lead styphnate	15245-44-0	Level 1	1000 ppm (0.1 weight %)	2011/12/19
58	Lead dipicrate	6477-64-1	Level 1	1000 ppm (0.1 weight %)	2011/12/19
59	Lead diazide, Lead azide	13424-46-9	Level 1	1000 ppm (0.1 weight %)	2011/12/19
60	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	Level 1	1000 ppm (0.1 weight %)	2011/12/19
61	Dichromium tris(chromate)	24613-89-6	Level 1	1000 ppm (0.1 weight %)	2011/12/19
62	Calcium arsenate	7778-44-1	Level 1	1000 ppm (0.1 weight %)	2011/12/19
63	Bis(2-methoxyethyl) phthalate	117-82-8	Level 1	1000 ppm (0.1 weight %)	2011/12/19
64	Bis(2-methoxyethyl) ether	111-96-6	Level 1	1000 ppm (0.1 weight %)	2011/12/19
65	Arsenic acid	7778-39-4	Level 1	1000 ppm (0.1 weight %)	2011/12/19
66	Aluminosilicate Refractory Ceramic Fibres 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 ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight	-	Level 1	1000 ppm (0.1 weight %)	2011/12/19
67	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	Level 1	1000 ppm (0.1 weight %)	2011/12/19
68	2-Methoxyaniline,o-Anisidine	90-04-0	Level 1	1000 ppm (0.1 weight %)	2011/12/19
69	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	Level 1	1000 ppm (0.1 weight %)	2011/12/19
70	1,2-Dichloroethane	107-06-2	Level 1	1000 ppm (0.1 weight %)	2011/12/19

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71	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	Level 1	1000 ppm (0.1 weight %)	2012/6/18
72	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	Level 1	1000 ppm (0.1 weight %)	2012/6/18
73	Lead(II) bis(methanesulfonate)	17570-76-2	Level 1	1000 ppm (0.1 weight %)	2012/6/18
74	Formamide	75-12-7	Level 1	1000 ppm (0.1 weight %)	2012/6/18
75	Diboron trioxide	1303-86-2	Level 1	1000 ppm (0.1 weight %)	2012/6/18
76	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	Level 1	1000 ppm (0.1 weight %)	2012/6/18
77	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	Level 1	1000 ppm (0.1 weight %)	2012/6/18
78	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	Level 1	1000 ppm (0.1 weight %)	2012/6/18
79	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	Level 1	1000 ppm (0.1 weight %)	2012/6/18
80	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC)	59653-74-6	Level 1	1000 ppm (0.1 weight %)	2012/6/18
81	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	Level 1	1000 ppm (0.1 weight %)	2012/6/18
82	1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME)	110-71-4	Level 1	1000 ppm (0.1 weight %)	2012/6/18
83	1,2-bis(2-methoxyethoxy)ethane (TEGDME,triglyme)	112-49-2	Level 1	1000 ppm (0.1 weight %)	2012/6/18
84	Trilead dioxide phosphonate	12141-20-7	Level 1	1000 ppm (0.1 weight %)	2012/12/19

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85	Trilead bis(carbonate) dihydroxide	1319-46-6	Level 1	1000 ppm (0.1 weight %)	2012/12/19
86	Tricosafuorododecanoic acid	307-55-1	Level 1	1000 ppm (0.1 weight %)	2012/12/19
87	Tetralead trioxide sulphate	12202-17-4	Level 1	1000 ppm (0.1 weight %)	2012/12/19
88	Tetraethyllead	78-00-2	Level 1	1000 ppm (0.1 weight %)	2012/12/19
89	Sulfurous acid, lead salt, dibasic	62229-08-7	Level 1	1000 ppm (0.1 weight %)	2012/12/19
90	Silicic acid, lead salt	11120-22-2	Level 1	1000 ppm (0.1 weight %)	2012/12/19
91	Silicic acid, barium salt (1:1), lead-doped [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]	68784-75-8	Level 1	1000 ppm (0.1 weight %)	2012/12/19
92	Pyrochlore, antimony lead yellow	8012-00-8	Level 1	1000 ppm (0.1 weight %)	2012/12/19
93	Pentalead tetraoxide sulphate	12065-90-6	Level 1	1000 ppm (0.1 weight %)	2012/12/19
94	Pentacosafuorotridecanoic acid	72629-94-8	Level 1	1000 ppm (0.1 weight %)	2012/12/19
95	Orange lead (lead tetroxide)	1314-41-6	Level 1	1000 ppm (0.1 weight %)	2012/12/19
96	o-Toluidine	95-53-4	Level 1	1000 ppm (0.1 weight %)	2012/12/19
97	o-aminoazotoluene	97-56-3	Level 1	1000 ppm (0.1 weight %)	2012/12/19
98	N-pentyl-isopentylphthalate	776297-69-9	Level 1	1000 ppm (0.1 weight %)	2012/12/19
99	N-methylacetamide	79-16-3	Level 1	1000 ppm (0.1 weight %)	2012/12/19
100	N,N-dimethylformamide	68-12-2	Level 1	1000 ppm (0.1 weight %)	2012/12/19
101	Methyloxirane (Propylene oxide)	75-56-9	Level 1	1000 ppm (0.1 weight %)	2012/12/19
102	Methoxyacetic acid	625-45-6	Level 1	1000 ppm (0.1 weight %)	2012/12/19
103	Lead titanium zirconium oxide	12626-81-2	Level 1	1000 ppm (0.1 weight %)	2012/12/19
104	Lead titanium trioxide	12060-00-3	Level 1	1000 ppm (0.1 weight %)	2012/12/19
105	Lead oxide sulfate	12036-76-9	Level 1	1000 ppm (0.1 weight %)	2012/12/19

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106	Lead monoxide (lead oxide)	1317-36-8	Level 1	1000 ppm (0.1 weight %)	2012/12/19
107	Lead dinitrate	10099-74-8	Level 1	1000 ppm (0.1 weight %)	2012/12/19
108	Lead cyanamidate	20837-86-9	Level 1	1000 ppm (0.1 weight %)	2012/12/19
109	Lead bis(tetrafluoroborate)	13814-96-5	Level 1	1000 ppm (0.1 weight %)	2012/12/19
110	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	Level 1	1000 ppm (0.1 weight %)	2012/12/19
111	Heptacosafuorotetradecanoic acid	376-06-7	Level 1	1000 ppm (0.1 weight %)	2012/12/19
112	Henicosafuoroundecanoic acid	2058-94-8	Level 1	1000 ppm (0.1 weight %)	2012/12/19
113	Furan	110-00-9	Level 1	1000 ppm (0.1 weight %)	2012/12/19
114	Fatty acids, C16-18, lead salts	91031-62-8	Level 1	1000 ppm (0.1 weight %)	2012/12/19
115	Dioxobis(stearato)trilead	12578-12-0	Level 1	1000 ppm (0.1 weight %)	2012/12/19
116	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	Level 1	1000 ppm (0.1 weight %)	2012/12/19
117	Dimethyl sulphate	77-78-1	Level 1	1000 ppm (0.1 weight %)	2012/12/19
118	Diisopentylphthalate	605-50-5	Level 1	1000 ppm (0.1 weight %)	2012/12/19
119	Diethyl sulphate	64-67-5	Level 1	1000 ppm (0.1 weight %)	2012/12/19
120	Dibutyltin dichloride (DBTC)	683-18-1	Level 1	1000 ppm (0.1 weight %)	2012/12/19
121	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	Level 1	1000 ppm (0.1 weight %)	2012/12/19
122	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	85-42-7, 13149-00-3, 14166-21-3	Level 1	1000 ppm (0.1 weight %)	2012/12/19
123	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	Level 1	1000 ppm (0.1 weight %)	2012/12/19

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124	Biphenyl-4-ylamine	92-67-1	Level 1	1000 ppm (0.1 weight %)	2012/12/19
125	Acetic acid, lead salt, basic	51404-69-4	Level 1	1000 ppm (0.1 weight %)	2012/12/19
126	[Phthalato(2-)]dioxotrilead	69011-06-9	Level 1	1000 ppm (0.1 weight %)	2012/12/19
127	6-methoxy-m-toluidine (p-cresidine)	120-71-8	Level 1	1000 ppm (0.1 weight %)	2012/12/19
128	4-Nonylphenol, branched and linear [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]	-	Level 1	1000 ppm (0.1 weight %)	2012/12/19
129	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	Level 1	1000 ppm (0.1 weight %)	2012/12/19
130	4-Aminoazobenzene	60-09-3	Level 1	1000 ppm (0.1 weight %)	2012/12/19
131	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	Level 1	1000 ppm (0.1 weight %)	2012/12/19
132	4,4'-oxydianiline and its salts	101-80-4	Level 1	1000 ppm (0.1 weight %)	2012/12/19
133	4,4'-methylenedi-o-toluidine	838-88-0	Level 1	1000 ppm (0.1 weight %)	2012/12/19
134	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	Level 1	1000 ppm (0.1 weight %)	2012/12/19
135	1-bromopropane (n-propyl bromide)	106-94-5	Level 1	1000 ppm (0.1 weight %)	2012/12/19
136	1,2-Diethoxyethane	629-14-1	Level 1	1000 ppm (0.1 weight %)	2012/12/19
137	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	Level 1	1000 ppm (0.1 weight %)	2012/12/19
138	Pentadecafluorooctanoic acid (PFOA)	335-67-1	Level 1	Not Detected	2013/6/20 Based on Sony's request
139	Dipentyl phthalate (DPP)	131-18-0	Level 1	1000 ppm (0.1 weight %)	2013/6/20
140	Cadmium oxide	1306-19-0	Level 1	1000 ppm (0.1 weight %)	2013/6/20
141	Cadmium	7440-43-9	Level 1	1000 ppm (0.1 weight %)	2013/6/20
142	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	Level 1	1000 ppm (0.1 weight %)	2013/6/20

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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, which include any of the individual isomers and/or combinations thereof]	-	Level 1	1000 ppm (0.1 weight %)	2013/6/20
144	Trixylyl phosphate	25155-23-1	Level 1	1000 ppm (0.1 weight %)	2013/12/16
145	Lead di(acetate)	301-04-2	Level 1	1000 ppm (0.1 weight %)	2013/12/16
146	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	Level 1	1000 ppm (0.1 weight %)	2013/12/16
147	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)	1937-37-7	Level 1	1000 ppm (0.1 weight %)	2013/12/16
148	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	Level 1	1000 ppm (0.1 weight %)	2013/12/16
149	Dihexyl pthalate	84-75-3	Level 1	1000 ppm (0.1 weight %)	2013/12/16
150	Cadmium sulphide	1306-23-6	Level 1	1000 ppm (0.1 weight %)	2013/12/16
151	Sodium peroxometaborate	7632-4-4	Level 1	1000 ppm (0.1 weight %)	2014/6/16
152	Sodium perborate, perboric acid, sodium salt	-	Level 1	1000 ppm (0.1 weight %)	2014/6/16
153	Cadmium chloride	10108-64-2	Level 1	1000 ppm (0.1 weight %)	2014/6/16
154	1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	68515-50-4	Level 1	1000 ppm (0.1 weight %)	2014/6/16
155	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)	-	Level 1	1000 ppm (0.1 weight %)	2014/12/17
156	Cadmium sulphate	10124-36-4, 31119-53-6	Level 1	1000 ppm (0.1 weight %)	2014/12/17
157	Cadmium fluoride	7790-79-6	Level 1	1000 ppm (0.1 weight %)	2014/12/17

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	Level 1	1000 ppm (0.1 weight %)	2014/12/17
159	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	Level 1	1000 ppm (0.1 weight %)	2014/12/17
160	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	Level 1	Not Detected	2014/12/17 Based on Sony's request
161	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	Level 1	1000 ppm (0.1 weight %)	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]	-	Level 1	1000 ppm (0.1 weight %)	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 ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5, 68648-93-1	Level 1	1000 ppm (0.1 weight %)	2015/6/15
164	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1, 21049-39-8, 4149-60-4	Level 1	1000 ppm (0.1 weight %)	2015/12/17
165	1,3-propanesultone	1120-71-4	Level 1	1000 ppm (0.1 weight %)	2015/12/17
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	Level 1	1000 ppm (0.1 weight %)	2015/12/17
167	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	Level 1	1000 ppm (0.1 weight %)	2015/12/17
168	Nitrobenzene	98-95-3	Level 1	1000 ppm (0.1 weight %)	2015/12/17
169	Benzo[def]chrysene	50-32-8	Level 1	1000 ppm (0.1 weight %)	2016/6/20
170	p-(1,1-dimethylpropyl)phenol (PTAP)	80-46-6	Level 1	1000 ppm (0.1 weight %)	2017/1/12
171	4-heptylphenol, branched and linear (4-HPbl)	-	Level 1	1000 ppm (0.1 weight %)	2017/1/12
172	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2	Level 1	1000 ppm (0.1 weight %)	2017/1/12
173	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	Level 1	1000 ppm (0.1 weight %)	2017/1/12
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	Level 1	25 ppb	2017/7/7 Based on Sony's request
175	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	Level 1	1000 ppm (0.1 weight %)	2018/1/15

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
176	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octa-deca-7,15-diene ("Dechlorane Plus"™)	-	Level 1	Not Detected	2018/1/15 Based on Sony's request
177	Chrysene	218-01-9, 1719-03-5	Level 1	1000 ppm (0.1 weight %)	2018/1/15
178	Cadmium nitrate	10022-68-1, 10325-94-7	Level 1	1000 ppm (0.1 weight %)	2018/1/15
179	Cadmium hydroxide	21041-95-2	Level 1	1000 ppm (0.1 weight %)	2018/1/15
180	Cadmium carbonate	513-78-0	Level 1	1000 ppm (0.1 weight %)	2018/1/15
181	Benz[a]anthracene	56-55-3, 1718-53-2	Level 1	1000 ppm (0.1 weight %)	2018/1/15
182	benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride)(TMA)	552-30-7	Level 1	1000 ppm (0.1 weight %)	2018/6/27
183	Dicyclohexyl phthalate (DCHP)	84-61-7	Level 1	1000 ppm (0.1 weight %)	2018/6/27
184	Terphenyl, hydrogenated	61788-32-7	Level 1	1000 ppm (0.1 weight %)	2018/6/27
185	Octamethylcyclotetrasiloxane(D4)	556-67-2	Level 1	1000 ppm (0.1 weight %)	2018/6/27
186	Lead	7439-92-1	Level 1	1000 ppm (0.1 weight %)	2018/6/27
187	Ethylenediamine	107-15-3	Level 1	1000 ppm (0.1 weight %)	2018/6/27
188	Dodecamethylcyclohexasiloxane(D6)	540-97-6	Level 1	1000 ppm (0.1 weight %)	2018/6/27
189	Disodium octaborate	12008-41-2	Level 1	1000 ppm (0.1 weight %)	2018/6/27
190	Decamethylcyclopentasiloxane (D5)	541-02-6	Level 1	1000 ppm (0.1 weight %)	2018/6/27
191	Benzo[ghi]perylene	191-24-2	Level 1	1000 ppm (0.1 weight %)	2018/6/27
192	Pyrene	129-00-0, 1718-52-1	Level 1	1000 ppm (0.1 weight %)	2019/1/15
193	Phenanthrene	85-01-8	Level 1	1000 ppm (0.1 weight %)	2019/1/15
194	Fluoranthene	206-44-0, 93951-69-0	Level 1	1000 ppm (0.1 weight %)	2019/1/15
195	Benzo[k]fluoranthene	207-08-9	Level 1	1000 ppm (0.1 weight %)	2019/1/15
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	Level 1	1000 ppm (0.1 weight %)	2019/1/15

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)	15087-24-8	Level 1	1000 ppm (0.1 weight %)	2019/1/15
198	4-tert-butylphenol	98-54-4	Level 1	1000 ppm (0.1 weight %)	2019/7/16
199	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	Level 1	1000 ppm (0.1 weight %)	2019/7/16
200	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	Level 1	1000 ppm (0.1 weight %)	2019/7/16 2025/1/21
201	2-methoxyethyl acetate	110-49-6	Level 1	1000 ppm (0.1 weight %)	2019/7/16
202	Diisohexyl phthalate	71850-09-4	Level 1	1000 ppm (0.1 weight %)	2020/1/16
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	Level 1	1000 ppm (0.1 weight %)	2020/1/16
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	Level 1	1000 ppm (0.1 weight %)	2020/1/16
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	Level 1	1000 ppm (0.1 weight %)	2020/1/16
206	1-vinylimidazole	1072-63-5	Level 1	1000 ppm (0.1 weight %)	2020/6/25
207	2-methylimidazole	693-98-1	Level 1	1000 ppm (0.1 weight %)	2020/6/25
208	butyl 4-hydroxybenzoate	94-26-8	Level 1	1000 ppm (0.1 weight %)	2020/6/25
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	Level 1	1000 ppm (0.1 weight %)	2020/6/25
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	Level 1	1000 ppm (0.1 weight %)	2021/1/19
211	Dioctyltin 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	-	Level 1	1000 ppm (0.1 weight %)	2021/1/19
212	1,4-dioxane	123-91-1	Level 1	1000 ppm (0.1 weight %)	2021/7/8
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)	1522-92-5, 36483-57-5, 3296-90-0, 96-13-9	Level 1	1000 ppm (0.1 weight %)	2021/7/8

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	75166-31-3, 80-54-6, 75166-30-2	Level 1	1000 ppm (0.1 weight %)	2021/7/8
215	4,4'-(1-methylpropylidene)bisphenol	77-40-7	Level 3	1000 ppm (0.1 weight %)	2021/7/8
216	Glutaral	111-30-8	Level 1	1000 ppm (0.1 weight %)	2021/7/8
217	Medium-chain chlorinated paraffins (MCCP)	1372804-76-6, 85535-85-9, 198840-65-2	Level 1	Not Detected	2021/7/8 Based on Sony's request
218	orthoboric acid, sodium salt	25747-83-5, 22454-04-2, 14312-40-4, 1333-73-9, 13840-56-7, 14890-53-0	Level 3	1000 ppm (0.1 weight %)	2021/7/8
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)	210555-94-5, 27459-10-5, 27147-75-7, 121158-58-5, 74499-35-7, 57427-55-1	Level 1	1000 ppm (0.1 weight %)	2021/7/8
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)	1782069-81-1, 95342-41-9, 852541-25-4, 36861-47-9, 741687-98-9, 852541-30-1, 852541-21-0	Level 1	1000 ppm (0.1 weight %)	2022/1/17
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	Level 3	1000 ppm (0.1 weight %)	2022/1/17
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	255881-94-8	Level 1	1000 ppm (0.1 weight %)	2022/1/17
223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	Level 1	1000 ppm (0.1 weight %)	2022/1/17
224	N-(hydroxymethyl)acrylamide	924-42-5	Level 1	1000 ppm (0.1 weight %)	2022/6/10
225	1,1'-[ethane-1,2-diylbisoxo]bis[2,4,6-tribromobenzene]	37853-59-1	Level 1	1000 ppm (0.1 weight %)	2023/1/17
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	Level 1	1000 ppm (0.1 weight %)	2023/1/17
227	4,4'-sulphonyldiphenol	80-09-1	Level 1	1000 ppm (0.1 weight %)	2023/1/17
228	Barium diboron tetraoxide	13701-59-2	Level 1	1000 ppm (0.1 weight %)	2023/1/17

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	Level 1	1000 ppm (0.1 weight %)	2023/1/17
230	Isobutyl 4-hydroxybenzoate	4247-02-3	Level 1	1000 ppm (0.1 weight %)	2023/1/17
231	Melamine	108-78-1	Level 1	1000 ppm (0.1 weight %)	2023/1/17
232	Perfluoroheptanoic acid and its salts	-	Level 1	1000 ppm (0.1 weight %)	2023/1/17
233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	Level 1	1000 ppm (0.1 weight %)	2023/1/17
234	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	Level 1	1000 ppm (0.1 weight %)	2023/6/14
235	Bis(4-chlorophenyl) sulphone	80-07-9	Level 1	1000 ppm (0.1 weight %)	2023/6/14
236	2,4,6-tri-tert-butylphenol	732-26-3	Level 1	1000 ppm (0.1 weight %)	2024/1/23
237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	3147-75-9	Level 1	1000 ppm (0.1 weight %)	2024/1/23
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	Level 1	1000 ppm (0.1 weight %)	2024/1/23
239	Bumetizole	3896-11-5	Level 1	1000 ppm (0.1 weight %)	2024/1/23
240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	Level 1	1000 ppm (0.1 weight %)	2024/1/23
241	Bis(α,α -dimethylbenzyl) peroxide	80-43-3	Level 1	1000 ppm (0.1 weight %)	2024/6/27
242	Triphenyl Phosphate	115-86-6	Level 1	1000 ppm (0.1 weight %)	2024/11/7
243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	Level 1	1000 ppm (0.1 weight %)	2025/1/21
244	O,O,O-triphenyl phosphorothioate	597-82-0	Level 1	1000 ppm (0.1 weight %)	2025/1/21
245	Octamethyltrisiloxane	107-51-7	Level 1	1000 ppm (0.1 weight %)	2025/1/21
246	Perfluamine	338-83-0	Level 1	1000 ppm (0.1 weight %)	2025/1/21
247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	Level 1	1000 ppm (0.1 weight %)	2025/1/21
248	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	Level 1	1000 ppm (0.1 weight %)	2025/6/25
249	decamethyltetrasiloxane	141-62-8	Level 1	1000 ppm (0.1 weight %)	2025/6/25

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
250	tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-{[4-chloro-6-({2-[(4-fluoro-6-{[4-(vinylsulfonyl)phenyl]amino}-1,3,5-triazine-2-yl)amino]propyl} amino)-1,3,5-triazine-2-yl]amino}-5-sulfonato-1-naphthyl)diazenyl]-5-methoxyphenyl} diazenyl]-1,3,6-naphthalenetrisulfonate (Reactive Brown 51)	-	Level 1	1000 ppm (0.1 weight %)	2025/6/25
251	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene] (DBDPE)	84852-53-9	Level 1	500 ppm (0.05 weight %)	2025/11/05 Based on Sony's request
252	n-hexane	110-54-3	Level 1	1000 ppm (0.1 weight %)	2026/2/4
253	4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and its salts	-	Level 1	1000 ppm (0.1 weight %)	2026/2/4

EPA TSCA PBT 物質 EPA TSCA PBT Substance

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
1	decaBDE Decabromodiphenyl ether	1163-19-5	Level 1	Not Detected	Banned immediately
2	PIP(3:1) Triphenyl phosphate (isopropylated triphenyl phosphate)	68937-41-7	Level 1	Not Detected	Banned immediately
3	2,4,6-TTBP 2,4,6-Tert-butyl phenol	732-26-3	Level 1	Not Detected	Banned immediately
4	PCTP Pentachlorothiophenol	133-49-3	Level 1	Not Detected	Banned immediately
5	HCBD Hexachlorobutadiene	87-68-3	Level 1	Not Detected	Banned immediately
6	Methylene Chloride	75-09-2	Level 1	Not Detected	Banned immediately

法國礦物油 Mineral oil

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
1	Mineral Oil Aromatic Hydrocarbons(MOAH)(1-7 aromatic rings)	-	Level 1	1000	Banned immediately
2	Mineral Oil Aromatic Hydrocarbons(MOAH)(3-7 aromatic rings)	-	Level 1	1	Banned immediately
3	Mineral Oil Saturated Hydrocarbons(MOSH)(C16-C35)	-	Level 1	1000	Banned immediately

RBA產業焦點流程化學品清單 (IFPCL)

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
1	1-Bromopropane	106-94-5	Level 1	1000	Banned immediately
2	Benzene	71-43-2	Level 1	1000	Banned immediately
3	Dichloromethane (Methylene Chloride)	75-09-2	Level 1	1000	Banned immediately
4	Methanol	67-56-1	Level 1	1000	Banned immediately
5	n-Hexane	110-54-3	Level 1	1000	Banned immediately
6	N-Methyl-Pyrrolidone (NMP)	872-50-4	Level 1	1000	Banned immediately (Exempted Conditional Use for photoresist stripping)
7	Tetrachloroethylene	127-18-4	Level 1	1000	Banned immediately
8	Toluene	108-88-3	Level 1	1000	Banned immediately
9	Trichloroethylene	79-01-6	Level 1	1000	Banned immediately

其他禁用物質 Other Prohibited Substances

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
1	Arsenic (As)	7440-38-2	Level 1	Not Detected Exemption: It is used as a dopant in semiconductors	Based on Customer's request
2	Selenium (Se)	7782-49-2	Level 1	Not Detected	Based on Customer's request
3	Barium or its compound	7440-39-3	Level 1	100	Based on Customer's request
4	Beryllium (Be)	7440-41-7	Level 1	Not Detected	Banned immediately
5	Nickel (Ni)	7440-02-0	Level 1	Not intentionally added Exemption: lead frame type	Based on Customer's request
6	Antimony (Sb)	7440-36-0	Level 3	1000	Based on Customer's request
7	Nickel release test (ug/ cm ² / week)	-	Level 1	0.2ug/cm ² /week	Banned immediately
8	Polychlorinated biphenyls (PCB)	-	Level 1	Not Detected	Banned immediately
9	Polychlorinated naphthalenes (PCN)	-	Level 1	Not Detected	Banned immediately
10	Polychlorinated terphenyls (PCT)	61788-33-8	Level 1	Not Detected	Banned immediately
11	Chlorinated paraffin (CP)	106232-86-4	Level 1	Not Detected	Banned immediately
12	Mirex (Perchlordecone)	2385-85-5	Level 1	Not Detected	Banned immediately
13	Tetrabromobisphenol-A-bis-(2,3-dibromopropylether) (TBBP-A-bis)		Level 1	900	Based on Customer's request
14	Tributyltin compounds (TBT)	-	Level 1	Not Detected	Banned immediately
15	Tributyltin oxide (TBTO)	-	Level 1	Not Detected	Banned immediately
16	Triphenyltin compounds (TphT) or (TPT)	-	Level 1	Not Detected	Banned immediately
17	Asbestos	1332-21-4	Level 1	Not Detected	Banned immediately
18	Azo compounds	-	Level 1	Not Detected	Banned immediately
19	Formaldehyde	50-00-0	Level 1	Not Detected	Banned immediately
20	Di-isononyl phthalate (DINP)	28553-12-0	Level 1	Not Detected	Banned immediately
21	Di-isodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	Level 1	Not Detected	Banned immediately
22	Di-n-octyl phthalate (DNOP)	117-84-0	Level 1	Not Detected	Banned immediately
23	Di-n-hexyl phthalate (DNHP)	84-75-3	Level 1	1000	Banned immediately
24	Di-n-pentyl phthalate (DNPP)	131-18-0	Level 1	Not Detected	Banned immediately
25	Diethyl phthalate (DEP)	84-66-2	Level 1	Not Detected	Banned immediately
26	Dimethyl phthalate (DMP)	131-11-3	Level 1	Not Detected	Banned immediately
27	Di-isoheptyl phthalate (DIHP)	71888-89-6	Level 1	Not Detected	Banned immediately
28	Ozone depleting substances (ODS) , such as CFCs, HCFCs, Halons	-	Level 1	Not Detected	Banned immediately

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
29	Radioactive Substances (U, Pu, Rn, Am, Th, Cs, Sr and Others)	-	Level 1	Not Detected	Based on Sony's request
30	Hydrofluoracarbon(HFC), Perfluorocarbon(PFC)	-	Level 1	Not Detected	Banned immediately
31	Sulfur hexafluoride (SF6)	2551-62-4	Level 1	Not Detected	Banned immediately
32	Specific benzotriazole	-	Level 1	Not Detected	Banned immediately
33	Total Halogen: Fluorine (F), Chlorine (Cl), Bromine (Br), and Iodine (I)	-	Level 3	F, Cl, Br, I <900, Total<1500	Based on Customer's request
34	Dimethyl fumarate (DMF)	624-49-7 68-12-2	Level 1	Not Detected	Banned immediately
35	Dibutyltin (DBT) compounds	-	Level 1	1000	Banned immediately
36	Diocetyl tin (DOT) compounds	-	Level 1	1000	Banned immediately
37	Tris(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	Level 1	1000	Banned immediately
38	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	13674-87-8	Level 1	1000	Banned immediately
39	Boric acid, specific sodium borates	-	Level 3	Not Detected	Based on Customer's request
40	Phencyclidine (PCP)	77-10-1	Level 1	Not Detected	Banned immediately
41	Polycyclic Aromatic Hydrocarbons(PAHs)	-	Level 1	Not Detected	Banned immediately
42	Perchlorates	14797-73-0	Level 3	6ppb of battery or product part	Based on Customer's request
43	Dimethoxyethyl phthalate (DMEP)	117-82-8	Level 1	Not Detected	Banned immediately
44	White, Red, Yellow Phosphorus	7723-14-0 12185-10-3	Level 1	Not Detected	Banned immediately
45	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	Level 1	Not Detected	Banned immediately
46	Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	68921-45-9	Level 1	Not Detected	Banned immediately
47	Polychloronaphthalenes (Cl>=1)	-	Level 1	Not Detected	Banned immediately
48	Sodium azide	26628-22-8	Level 1	1000	Banned immediately
49	Aniline chloride	142-04-1	Level 1	Not Detected	Banned immediately
50	Perchloric acid compound	7601-90-3	Level 1	Not Detected	Banned immediately
51	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	Level 1	Not Detected	Banned immediately

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
52	Di-μ-oxo-di-n-butylstanniohydroxyborane /Dibutyltin hydrogen borate C ₈ H ₁₉ BO ₃ Sn (DBB or DBT)	75113-37-0	Level 1	1000	Banned immediately
53	Perfluorohexanoic acid (PFHxA) and its salts and related substances	-	Level 1	Not Detected	Banned immediately
54	Decabromodiphenylethane (DBDPE)	84852-53-9	Level 1	500	Banned immediately
55	Long-chain perfluoroalkyl carboxylate (LCPFAC) and perfluoroalkyl sulfonate chemicals	-	Level 1	Not intentionally added	Banned immediately
56	Perfluoroalkyl and polyfluoroalkyl substances (PFAS)	-	Level 1	Not Detected	Banned immediately
57	PFCAs (C9-C14), their salts and related substances	-	Level 1	25 ppb for the sum of C9-C14 PFCAs and their salts 260 ppb for the sum of C9-C14 PFCA-related substances	Banned immediately
58	Carbon tetrachloride	56-23-5	Level 1	Not Detected	Banned immediately
59	Methyl chloroform	71-55-6	Level 1	Not Detected	Banned immediately
60	HBFCs	-	Level 1	Not Detected	Banned immediately
61	Bromomethane	74-83-9	Level 1	Not Detected	Banned immediately
62	Long-chain(C9-C21) perfluorocarboxylic acids (PFCAs) and its salts and related substances	-	Level 1	Not Detected	Banned immediately
63	Hexachlorobenzene(HCB)	118-74-1	Level 1	Not intentionally added or 10 ppm in article or mixture	Banned immediately
64	Halogenated flame retardants	-	Level 1	1000 ppm of total halogen elements in homogeneous material (including PBBs and PBDEs) or intentionally added	Based on Sony's request
65	Methylene Chloride	75-09-2	Level 1	Not intentionally added	Banned immediately
66	Perchloroethylene	127-18-4	Level 1	Not intentionally added	Banned immediately
67	Pigment Violet 29	81-33-4	Level 1	Not intentionally added	Banned immediately

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
68	Bismuth(Bi)	7440-69-9	Level 1	1000	Based on Customer's request
69	Long-Chained Chlorinated Paraffins(LCCP)	-	Level 1	Not Detected	Based on Customer's request
70	Perfluorooctane sulfonic acid and its derivatives (PFOS)	-	Level 1	Not Detected	Based on Customer's request
71	PFHxS-related compounds	-	Level 1	Not intentionally added	Based on Sony's request
72	Diisooctyl phthalate(DIOP)	27554-26-3	Level 3	1000	Based on Sony's request
73	Magnesium /Magnesium Compounds(Mg)	7439-95-4	Level 3	1000	Based on Customer's request
74	Alkylphenols (AP) and Alkylphenol Ethoxylates (APEO)	25154-52-3 27193-28-8 9016-45-9 9002-93-1	Level 3	Not Detected	Based on Customer's request
75	1,3-benzenediol	-	Level 3	1000	Based on Customer's request
76	Bisphenol S	-	Level 3	200ppm of Thermal paper	Based on Customer's request
77	Chlordecone	-	Level 3	Not Detected	Based on Customer's request
78	Methyl-phenol compounds	95-48-7 106-44-5 108-39-4 1319-77-3	Level 3	10 ppm total content	Based on Customer's request
79	Nanomaterials	-	Level 3	Not intentionally added	Based on Customer's request
80	Nonylphenol, Nonylphenol Ethoxylate	-	Level 3	Not intentionally added	Based on Customer's request
81	Neodymium and its compounds	-	Level 3	Not intentionally added	Based on Customer's request
82	2,2'-(2,5-thiophenediyl)bis(5-tertbutylbenzoxazole) (BBOT)	-	Level 3	1000	Based on Customer's request
83	Brominated Organic Solvents	-	Level 3	Not intentionally added	Based on Customer's request
84	Chloride Flame Retardants and its compounds	-	Level 3	Not intentionally added	Based on Customer's request
85	Dinickel trioxide	-	Level 3	1000	Based on Customer's request
86	Photoinitiators	-	Level 3	1000	Based on Customer's request
87	Plasticizers	-	Level 3	1000	Based on Customer's request
88	UV Stabilizers	-	Level 3	1000	Based on Customer's request
89	Xylene and its isomers	-	Level 3	Not intentionally added	Based on Customer's request

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
90	Biocides	-	Level 3	Not Detected	Based on Customer's request
91	Indium Phosphide	-	Level 3	Not Detected	Based on Customer's request
92	Endocrine Disrupting Chemicals (EDCs)	-	Level 3	Not intentionally added	Based on Customer's request
93	Latex and letex compound	-	Level 3	Not Detected	Based on Customer's request
94	Creosote (coal tar / oil wood preservatives)	8021-39-4 8001-58-9 8007-45-2 65996-93-2 70321-79-8 70321-80-1 90640-84-9 90840-85-0 61789-28-4	Level 3	Not Detected	Based on Customer's request
95	OBPA (10,10'-oxybisphenoxarsine)	58-36-6	Level 3	Not Detected	Based on Customer's request

包材禁用物質 Prohibited Substances of Packing Materials

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
1	Cadmium and Cadmium compounds	-	Level 1	Total ppm<50ppm(Cadmium and Cadmium compounds<5ppm)	Banned immediately
2	Lead and Lead compounds	-			
3	Mercury and Mercury compounds	-			
4	Hexavalent Chromium compounds	-			
5	Polyvinyl chloride(PVC) and PVC blends	9002-86-2	Level 1 Exemption Tube	Not Detected (It could not SDS or non-use PVC certificate to replace)	Banned immediately (Plastic materials)
6	Cobalt dichloride (For desiccant agent and humidity indicator card only)	7646-79-9	Level 1	Not Detected	Banned immediately
7	Polybrominated biphenyls (PBB)	-	Level 1	Not Detected	Banned immediately
8	Polybrominated diphenylethers (PBDE)	-	Level 1	Not Detected	Banned immediately
9	Benzyl butyl phthalate (BBP)	85-68-7	Level 1	Not Detected	Banned immediately
10	Dibutyl phthalate (DBP)	84-74-2	Level 1	Not Detected	Banned immediately
11	Di-isobutyl phthalate (DIBP)	84-69-5	Level 1	Not Detected	Banned immediately
12	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	Level 1	Not Detected	Banned immediately
13	Di-isononyl phthalate (DINP)	28553-12-0	Level 1	Not Detected	Banned immediately
14	Phthalates	-	Level 1	Total <100 ppm	Based on Customer's request
15	Chlorine (Cl)	22537-15-1	Level 3	900	Banned immediately
16	Bromine (Br)	10097-32-2	Level 3	900	Banned immediately
17	Cl+ Br	-	Level 3	1500	Banned immediately
18	Pentadecafluorooctanoic acid (PFOA)	335-67-1	Level 1	Not Detected	Banned immediately
19	Perfluorooctane sulfonates (PFOS)	1763-23-1	Level 1	Not Detected	Banned immediately
20	Perfluoroalkyl and polyfluoroalkyl substances (PFAS)	-	Level 1	Not Detected	Based on Customer's request
21	Dimethyl Fumarate (DMF) (For desiccant)	624-49-7 68-12-2	Level 1	Not Detected	Banned immediately

治具如探針卡、探針的禁用物質

Prohibited Substances for tooling such as probe card, socket.

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
1	Cadmium (Cd) and its compounds	-	Level 1	100 ppm (0.01 weight %)	Banned immediately
2	Lead (Pb) and its compounds	-	Level 1	1000 ppm (0.1 weight %)	Banned immediately
3	Mercury (Hg) and its compounds	-	Level 1	1000 ppm (0.1 weight %)	Banned immediately
4	Hexavalent Chromium (Cr VI) and its compounds	-	Level 1	1000 ppm (0.1 weight %)	Banned immediately
5	Polybrominated biphenyls (PBB)	-	Level 1	1000 ppm (0.1 weight %)	Banned immediately
6	Polybrominated diphenylethers (PBDE)	-	Level 1	1000 ppm (0.1 weight %)	Banned immediately
7	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	Level 1	1000 ppm (0.1 weight %)	Banned immediately
8	Benzyl butyl phthalate (BBP)	85-68-7	Level 1	1000 ppm (0.1 weight %)	Banned immediately
9	Dibutyl phthalate (DBP)	84-74-2	Level 1	1000 ppm (0.1 weight %)	Banned immediately
10	Di-isobutyl phthalate (DIBP)	84-69-5	Level 1	1000 ppm (0.1 weight %)	Banned immediately
11	Fluorine (F)	7782-41-4	Level 3	900 ppm	Banned immediately
12	Chlorine (Cl)	22537-15-1	Level 3	900 ppm	Banned immediately
13	Bromine (Br)	10097-32-2	Level 3	900 ppm	Banned immediately
14	Cl + Br	-	Level 3	1500 ppm	Banned immediately

測試配件如針測測試油墨、手(指)套、乙醇的禁用物質

Prohibited Substances for testing accessory such as CP ink, gloves\finger cot, alcohol.

Substances		CAS Number	Level Definition	Declaration Threshold ppm (mg/kg)	Effective date of the ban on the delivery
1	Cadmium (Cd) and its compounds	-	Level 1	100 ppm (0.01 weight %)	Banned immediately
2	Lead (Pb) and its compounds	-	Level 1	1000 ppm (0.1 weight %)	Banned immediately
3	Mercury (Hg) and its compounds	-	Level 1	1000 ppm (0.1 weight %)	Banned immediately
4	Hexavalent Chromium (Cr VI) and its compounds	-	Level 1	1000 ppm (0.1 weight %)	Banned immediately
5	Polybrominated biphenyls (PBB)	-	Level 1	1000 ppm (0.1 weight %)	Banned immediately
6	Polybrominated diphenylethers (PBDE)	-	Level 1	1000 ppm (0.1 weight %)	Banned immediately
7	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	Level 1	1000 ppm (0.1 weight %)	Banned immediately
8	Benzyl butyl phthalate (BBP)	85-68-7	Level 1	1000 ppm (0.1 weight %)	Banned immediately
9	Dibutyl phthalate (DBP)	84-74-2	Level 1	1000 ppm (0.1 weight %)	Banned immediately
10	Di-isobutyl phthalate (DIBP)	84-69-5	Level 1	1000 ppm (0.1 weight %)	Banned immediately
11	Fluorine (F)	7782-41-4	Level 3	900 ppm	Banned immediately
12	Chlorine (Cl)	22537-15-1	Level 3	900 ppm	Banned immediately
13	Bromine (Br)	10097-32-2	Level 3	900 ppm	Banned immediately
14	Cl + Br	-	Level 3	1500 ppm	Banned immediately

檢測報告要求
Test report requirements.

項目 Item	物質 Substances		測試方法 Testing Methods	偵測極限 Detection Limit	管控限值 Spec.	原物料 Raw material	包裝材料 Packing material	備註 Note
RoHS 2.0 危害物質 限制指令	1	鎘(Cd) Cadmium (Cd)	IEC62321-5	2	100 ppm	V	V	
	2	鉛(Pb) Lead (Pb)	IEC62321-5	2	800 ppm	V	V	*1
	3	汞(Hg) Mercury (Hg)	IEC62321-4	2	1000 ppm	V	V	
	4	六價鉻(Cr VI) Hexavalent Chromium (Cr VI)	IEC62321-7	8	1000 ppm	V	V	
	5	多溴聯苯/多 溴二苯醚 PBBs/PBDEs	IEC62321-6	5	1000 ppm	V	V	
	6	鄰苯二甲酸 酯 Phthalate (BBP, DBP, DEHP, DIBP)	IEC62321-8	50	1000 ppm	V	V	
Halogen Free 無鹵	11	氯(Cl) Chlorine (Cl)	EN14582:2016	50 ppm	900 ppm	V	V	
	12	溴(Br) Bromine (Br)			900 ppm	V	V	
	13	氯(Cl)+溴(Br) Chlorine+Bromine			1500 ppm	V	V	
	14	氟(F) Fluorine (F)			900 ppm	V	V	*2
	15	碘(I) Iodine (I)			900 ppm	V	V	

項目 Item	物質 Substances	測試方法 Testing Methods	偵測極限 Detection Limit	管控限值 Spec.	原物料 Raw material	包裝材料 Packing material	備註 Note
SH 有害物質	16 全氟辛酸(PFOA) Perfluorooctanoic Acid (PFOA)	EN17681:2025	0.01	Not Detected	V	V	
	17 全氟辛烷磺酸(PFOS) Perfluorooctane sulfonates (PFOS)			Not Detected	V	V	
	18 二氯化鈷(CoCl ₂) Cobalt dichloride (CoCl ₂)	ICP-OES / IC EPA3052:1996	-	Not Detected		V	*3
	19 富馬酸二甲酯(DMF) Dimethyl Fumarate (DMF)	EPA3550C:2007	0.1	Not Detected		V	*4
	20 銻(Sb) Antimony (Sb)	EPA3052:1996	2	700 ppm	V		
	21 鈹(Be) Beryllium (Be)	EPA3052:1996	2	Not Detected	V		
	22 砷(As) Arsenic (As)	EPA3052:1996	2	1000ppm	V		*5
	23 多氯聯苯(PCBs) Polychlorinated biphenyl	EPA3550C:2007	0.5	Not Detected	V		*5
	24 六溴環十二烷(HBCDD) Hexabromocyclododecane	IEC62321-9	20	Not Detected	V		*5

備註 Note:

*1 依客戶需求，針對供應商(代碼 10279)所提供之錫球材料管控限值為 100 ppm。

Based on customer requirements, the specific substance control limit is 100 ppm for the solder ball materials provided by the supplier (code 10279).

*2 氟測試結果大於>50ppm，必須提供證明文件佐證/聲明非 PFAS 物質。

If F > 50ppm, supporting documents / declaration must be provided to prove that it is not a PFAS substance.

*3 溼度指示卡及乾燥劑須提供二氯化鈷的測試報告。

Humidity indicator card and desiccant must be provided Cobalt chloride test report.

*4 礦土乾燥劑須提供富馬酸二甲酯的測試報告。

Desiccant clay must be provided Dimethyl Fumarate test report.

*5 依客戶需求，以下原物料電鍍液、錫球、背面塗層膠帶、PI 以及靶材需提供測試報告。

Based on customer requirements, the material part no is Plating, Solder Ball, Backside Coating Tape, Polyimide and Target must be provided test report.