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SUSUMU Co., Ltd. RoHS Compliance Information – 11/1/2016

Certificate of RoHS Compliance

This is to certify that all components listed below are RoHS compliant and meet the requirements of the current EU RoHS Directive (EU) 2015/863, and do not contain the substances listed in the table below in concentrations exceeding the Maximum Concentration Value (MCV).

Series:

RG, RR, PRG, URG, HRG, MRG, NRG, RGA, RMA, RGH, RM, RT, RS, YJP, RN, RA, CP, RRS, RL, RP, RPH, PRL, KRL, HPL, TFL, HTC, TBF, TBL, TDP, TBB, FL, PAT, PS, PXV, DS, GL, PCMC, PCMB

Substance Maximum Concentration Value:

Substance	Proposed MCV
Lead (Pb)	0.1% (1,000ppm)
Mercury (Hg)	0.1% (1,000ppm)
Cadmium (Cd)	0.01% (100ppm)
Hexavalent chromium (Cr+6)	0.1% (1,000ppm)
Polybrominated biphenyls (PBB)	0.1% (1,000ppm)
Polybrominated diphenyl ethers (PBDE)	0.1% (1,000ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% (1,000ppm)
Butyl benzyl phthalate (BBP)	0.1% (1,000ppm)
Dibutyl phthalate (DBP)	0.1% (1,000ppm)
Diisobutyl phthalate (DIBP)	0.1% (1,000ppm)

Best Regards,

Minoru Nishida
QA Manager
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Category	Product Series	Product Type (Description)	Plating Materials for Electrodes, etc.	RoHS Compliant (Pb,Hg,Cd,Cr+6,PBB/PBDE)	MSL Level	Reflow Temperatures:	Number of reflows	Lead	Mercury	Cadmium	Hexavalent Chromium	Polybrominated Biphenyls (PBB)	Polybrominated Diphenylethers (PBDE)
Coils	PCMC135T	Power Choke Coils	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
	PCMB042T	Power Choke Coils	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
	PCMB053T	Power Choke Coils	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
	PCMB063T	Power Choke Coils	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
	PCMB065T	Power Choke Coils	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
	PCMB103T	Power Choke Coils	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
	PCMB103E	Power Choke Coils	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
	PCMB104T	Power Choke Coils	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
	PCMB104E	Power Choke Coils	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
	PCMB105T	Power Choke Coils	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
PCMB133E	Power Choke Coils	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5	
Inductors	HPL0603	Thin Film Chip Inductors (0201 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
	HPL1005	Thin Film Chip Inductors (0402 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
	TFL0510	Thin Film Chip Inductors (0402 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
	TFL1608	Thin Film Chip Inductors (0603 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
Capacitors	HTC0603	Thin Film Capacitor (0201 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<10	<5	<1	<2	<25	<25
	HTC1005	Thin Film Capacitor (0402 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<10	<5	<1	<2	<25	<25
Filters	TBF-1005	Thin Film Band Pass Filters (0402 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<41	<2	<2	<2	<5	<5
	TBF-1608	Thin Film Band Pass Filters (0603 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<41	<2	<2	<2	<5	<5
	TBF-2012	Thin Film Band Pass Filters (0805 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<41	<2	<2	<2	<5	<5
	TBL-1005	Thin Film Balun for W-LAN & Bluetooth (0402 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<41	<2	<2	<2	<5	<5
	TBL-1608	Thin Film Balun for W-LAN & Bluetooth (0603 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<41	<2	<2	<2	<5	<5
	TDP-2012	Diplexer for W-LAN (0805 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<41	<2	<2	<2	<5	<5
	TBB-2012	Balance Filter for W-LAN (0805 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
Attenuators	PAT0510S	High Frequency Thin Film Chip Attenuators(0402 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<5	<2	<0.5	<1	<5	<5
	PAT0816	High Frequency Thin Film Chip Attenuators(0603 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<5	<2	<0.5	<1	<5	<5
	PAT1220	High Frequency Thin Film Chip Attenuators(0805 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<5	<2	<0.5	<1	<5	<5
	PAT1632	High Frequency Thin Film Chip Attenuators(1206 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<5	<2	<0.5	<1	<5	<5
	PAT3042S	High Frequency Thin Film Chip Attenuators(1712 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<5	<2	<0.5	<1	<5	<5
Power Splitters	PS1005	High Frequency Thin Film Power Splitters(0603 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<5	<2	<0.5	<1	<5	<5
	PS1608	High Frequency Thin Film Power Splitters(0603 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<5	<2	<0.5	<1	<5	<5
	PS2012	High Frequency Thin Film Power Splitters(0805 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<5	<2	<0.5	<1	<5	<5
	PS3216	High Frequency Thin Film Power Splitters(1206 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<5	<2	<0.5	<1	<5	<5
	PS5025	High Frequency Thin Film Power Splitters(2010 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<5	<2	<0.5	<1	<5	<5
Sound Components	RS1005	Audio Thin Film Chip Resistors (0402 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
	RS2012	Audio Thin Film Chip Resistors (0805 size)	Matte Sn	YES	1	260 deg C 10sec max.	2	<2	<2	<2	<2	<5	<5
	HAP-BME-20	Thin & Mini Piezo Speaker	Matte Sn	YES	1	260 deg C 10sec max.	2	<10	<5	<2	<2	<10	<10

Susumu hereby certifies that all materials and/or components used to manufacture the product(s) mentioned above are in compliance with the EU Directive 2002/95/EC for Restriction of Hazardous Substances (RoHS).

Furthermore, Supplier certifies that this information accurately represents the supplier's status in meeting those requirements.

NOTE:

- RR, RG, URG, PRG, HRG, NRG, PRG, RGA, RM, RMA, RT, RN, RA, RL, PRL, KRL, SHR YJP, PAT, PAV, PXV, PS, PCS, HPT, TFL, HPL, HTC, PCMC(B), and HAPBME-20 only made as RoHS Compliance and Lead-Free.
- Compliant and Non-compliant will be differentiated by LABEL on the plastic reel. Compliant Components; showing dotted line on the label [\(Please see description on next page\)](#)

Certificate of REACH Compliance

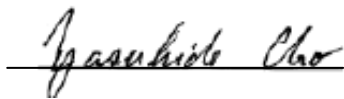
We, SUSUMU hereby certify that the product series listed below **do not contain** any of the REACH Substances of Very High Concern (SVHC), as specified in the table below according to the Candidate list published by ECHA (European Chemical Agency).

SUSUMU's product numbers (series)

URG1608, URG2012, URG3216, PRG2010, PRG3216, PRG5020, PRG6432, HRG3216,
RG1005, RG1608, RG2012, RG3216, RM2012, RM3216, RM3225, RM6432,
MRG2012, MRG3216, MRG5025, RGA1005, RGA1608, RGA2012, RGH1005, RGH1608, RGH2012
NRG1005, NRG1608, NRG2012, NRG3216, RS1005, RG1608, RS2012, SHR6432
RR0306, RR0510, RR0816, RR1220, RR1632, RR2632, RN73
RT0603, RT0510, RT0816, RT1220, RP1005, RP1608, RP2012
PRL0816, PRL1220, PRL1632, PRL3264, RL3720W, RL7520W
RL0510, RL0816, RL1220, RL1632, RL3264, RL3264L4, RL3264SW4
RL1632H, RL3264-6, RL3264-6C, RL3264-9V, RL3264-6W, RL3264-9C
KRL0510, KRL0816, KRL1220, KRL1632, KRL2550, KRL3264, KRL05110, YJP1608, YJP3216
KRL1608, KRL2012, KRL3216, KRL6432, KRL7638, KRL9045, KRL11050, KRL15075
PCMC042T, PCMB042T, PCMC053T, PCMB053T,
PCMC063T, PCMB063T, PCMB065T, PCMB103T(E), PCMB104T(E)
PCMB101E, PCMB105T, PCMC133E, PCMC135T
HPL0603, HPL1005, TFL0816, PAT0510S, PAT1220, PAT1608, PAT1632, PAT3042S
PXV1220, PBV1632, GL1L, GL2L, CL1L, CL2L, DS1L

Substance List: Substance of Very High Concern (SVHC) List

SUSUMU Co., Ltd.



Yasuhide Cho
QA Manager

No.	Substance	CAS No.
1	4,4'- Diaminodiphenylmethane (MDA)	101-77-9
2	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8
4	Anthracene	120-12-7
5	Benzyl butyl phthalate (BBP)	85-68-7
6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7
7	Bis(tributyltin) oxide (TBTO)	56-35-9
8	Cobalt dichloride	7646-79-9
9	Diarsenic pentaoxide	1303-28-2
10	Diarsenic trioxide	1327-53-3
11	Dibutyl phthalate (DBP)	84-74-2
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Gamma-hexabromocyclododecane, Beta-hexabromocyclododecane, Hexabromocyclododecane, 1,2,5,6,9,10-hexabromocyclodecane, Alpha-hexabromocyclododecane	134237-52-8 134237-51-7 25637-99-4 3194-55-6 134237-50-6
13	Lead hydrogen arsenate	7784-40-9
14	Sodium dichromate	10588-01-9 7789-12-0
15	Triethyl arsenate	15606-95-8

No.	Substance	CAS No.
16	2,4-dinitrotoluene	121-14-2
17	Anthracene oil	90640-80-5
18	Anthracene oil, anthracene paste	90640-81-6
19	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2
20	Anthracene oil, anthracene paste, distn. lights	91995-17-4
21	Anthracene oil, anthracene-low	90640-82-7
22	Diisobutyl phthalate	84-69-5
23	Lead chromate	7758-97-6
24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2
26	Pitch, coal tar, high-temp.	65996-93-2
27	Tris(2-chloroethyl) phosphate	115-96-8
28	Acrylamide	79-06-1
29	Ammonium dichromate	7789-09-5
30	Boric acid	11113-50-1 10043-35-3
31	Disodium tetraborate, anhydrous	12179-04-3 1303-96-4 1330-43-4

No.	Substance	CAS No.
32	Potassium chromate	7789-00-6
33	Potassium dichromate	7778-50-9
34	Sodium chromate	7775-11-3
35	Tetraboron disodium heptaoxide, hydrate	12267-73-1
36	Trichloroethylene	79-01-6
37	2-ethoxyethanol	110-80-5
38	2-methoxyethanol	109-86-4
39	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Oligomers of chromic acid and dichromic acid, Dichromic acid, and Chromic acid.	7738-94-5 13530-68-2
40	Chromium trioxide	1333-82-0
41	Cobalt(II) carbonate	513-79-1
42	Cobalt(II) diacetate	71-48-7
43	Cobalt(II) dinitrate	10141-05-6
44	Cobalt(II) sulphate	10124-43-3
45	1,2,3-trichloropropane	96-18-4
46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4

No.	Substance	CAS No.
48	1-Methyl-2-pyrrolidone (NMP)	872-50-4
49	2-ethoxyethyl acetate	111-15-9
50	Hydrazine	302-01-2 7803-57-8
51	Strontium chromate	7789-06-2
52	1,2-dichloroethane	107-06-2
53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4
54	2-Methoxyaniline, o-Anisidine	90-04-0
55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9
56	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 ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight	-
57	Arsenic acid	7778-39-4
58	Bis(2-methoxyethyl) ether	111-96-6

No.	Substance	CAS No.
59	Bis(2-methoxyethyl) phthalate	117-82-8
60	Calcium arsenate	7778-44-1
61	Dichromium tris(chromate)	24613-89-6
62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4
63	Lead diazide, Lead azide	13424-46-9
64	Lead dipicrate	6477-64-1
65	Lead styphnate	15245-44-0
66	N,N-dimethylacetamide	127-19-5
67	Pentazinc chromate octahydroxide	49663-84-5
68	Phenolphthalein	77-09-8
69	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9
70	Trilead diarsenate	3687-31-8

No.	Substance	CAS No.
71	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 ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight	-
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	112-49-2
73	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	110-71-4
74	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9
75	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
76	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
77	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8

No.	Substance	CAS No.
78	[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
79	[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
80	Diboron trioxide	1303-86-2
81	Formamide	75-12-7
82	Lead(II) bis(methanesulfonate)	17570-76-2
83	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1
84	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
85	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0
86	1,2-diethoxyethane	629-14-1
87	1-bromopropane (n-propyl bromide)	106-94-5
88	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
89	4,4'-methylenedi-o-toluidine	838-88-0
90	4,4'-oxydianiline and its salts	101-80-4

No.	Substance	CAS No.
91	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-
92	4-aminoazobenzene	60-09-3
93	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7
94	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]	-
95	6-methoxy-m-toluidine (p-cresidine)	120-71-8
96	[Phthalato(2-)]dioxotrilead	69011-06-9
97	Acetic acid, lead salt, basic	51404-69-4
98	Biphenyl-4-ylamine	92-67-1
99	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5
100	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]	13149-00-3 14166-21-3 85-42-7
101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3
102	Dibutyltin dichloride (DBTC)	683-18-1

No.	Substance	CAS No.
103	Diethyl sulphate	64-67-5
104	Diisopentyl phthalate	605-50-5
105	Dimethyl sulphate	77-78-1
106	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7
107	Dioxobis(stearato)trilead	12578-12-0
108	Fatty acids, C16-18, lead salts	91031-62-8
109	Furan	110-00-9
110	Henicosafleuroundecanoic acid	2058-94-8
111	Heptacosafleuroundecanoic acid	376-06-7
112	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]	48122-14-1 25550-51-0 19438-60-9 57110-29-9
113	Lead bis(tetrafluoroborate)	13814-96-5
114	Lead cyanamidate	20837-86-9
115	Lead dinitrate	10099-74-8
116	Lead monoxide (lead oxide)	1317-36-8

No.	Substance	CAS No.
117	Lead oxide sulfate	12036-76-9
118	Lead titanium trioxide	12060-00-3
119	Lead titanium zirconium oxide	12626-81-2
120	Methoxyacetic acid	625-45-6
121	Methyloxirane (Propylene oxide)	75-56-9
122	N,N-dimethylformamide	68-12-2
123	N-methylacetamide	79-16-3
124	N-pentyl-isopentylphthalate	776297-69-9
125	o-aminoazotoluene	97-56-3
126	o-toluidine	95-53-4
127	Orange lead (lead tetroxide)	1314-41-6
128	Pentacosafuorotridecanoic acid	72629-94-8
129	Pentalead tetraoxide sulphate	12065-90-6
130	Pyrochlore, antimony lead yellow	8012-00-8
131	Silicic acid (H ₂ Si ₂ O ₅), 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

No.	Substance	CAS No.
132	Silicic acid, lead salt	11120-22-2
133	Sulfurous acid, lead salt, dibasic	62229-08-7
134	Tetraethyllead	78-00-2
135	Tetralead trioxide sulphate	12202-17-4
136	Tricosafuorododecanoic acid	307-55-1
137	Trilead bis(carbonate) dihydroxide	1319-46-6
138	Trilead dioxide phosphonate	12141-20-7
139	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]	-
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
141	Cadmium	7440-43-9
142	Cadmium oxide	1306-19-0
143	Dipentyl phthalate (DPP)	131-18-0
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1
145	Cadmium sulphide	1306-23-6
146	Dihexyl phthalate	84-75-3

No.	Substance	CAS No.
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0
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)	1937-37-7
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7
150	Lead di(acetate)	301-04-2
151	Trixylyl phosphate	25155-23-1
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4
153	Cadmium chloride	10108-64-2
154	Sodium perborate, perboric acid, sodium salt	11138-47-9 15120-21-5
155	Sodium peroxometaborate	7632-04-4
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1
159	Cadmium fluoride	7790-79-6
160	Cadmium sulphate	10124-36-4 31119-53-6

No.	Substance	CAS No.
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)	-
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)	68648-93-1 68515-51-5
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] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-
164	1,3-propanesultone	1120-71-4
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3
167	Nitrobenzene	98-95-3
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8
170	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7

No.	Substance	CAS No.
171	4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3830-45-3 3108-42-7 335-76-2
173	p-(1,1-dimethylpropyl)phenol	80-46-6