



扫二维码
关注谱尼测试

Test Report

NO.: BDCEOZ2K72866744

Date: 2016.06.29

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(SVHC)

Applicant: Zhejiang Rectron Electronic Co.,Ltd

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Name: Lead Wire,Solder Wafer,Dice Wafer,Plating (Mix Tested) ;
Molding,Silicon Rubber,Uv Ink (Mix Tested)

Manufacturer: RECTRON

Applies to the following packages:

SMA(L) /SMB(L) /SMC(L) / SMX /SlimPAQ (P) /ThinPAQ /SOD123 / SOD123F(L) /
MELF / MINI MELF / R1 / A405 /DO41 / DO15 / R3 / R6 / R7 / 1.5KE / DO201 /
DO204 /HVM / HVP / DBS / DB / DBLS / SLDBS / MDS / MD /BDB / RS1 / RS2(L) /
RS4L / RS6 / RS8 / RB15 / WOM /RC2 / BR3 / BR6 / BR8 / BR10 /
BR15(W)-25(W)-35(W) /MB15(W)-25(W)-35(W) /
MP15(W)-25(W)-35(W) /RS1M-2M-4M-6M-8M-10M-15M-20M-25M-35M /
RBU4M-6M-8M-10M-15M / (I)TO220A / (I)TO220 / DPAK /D2PAK /
TO247/SOT23/SMAF/MDSJ/LMDS/DO-277/SOD323/MB

Sample Received Date: 2016.06.01

Testing Period: 2016.06.01 To 2016.06.29

Reference specification: Very High Concern (SVHC) testing based on the list published by European Chemicals Agency (ECHA) on 28 Oct 2008, 13 Jan 2010, 30 Mar 2010, 18 Jun 2010, 15 Dec 2010, 20 Jun 2011, 19 Dec 2011, 18 Jun 2012, 19 Dec 2012, 20 Jun 2013, 16 Dec 2013, 16 Jun 2014, 17 Dec 2014, 15 Jun 2015, 17 Dec 2015, and 29 Feb 2016, regarding regulation (EC) No 1907/2006 concerning the REACH. Screening tests based on customer requirements.

Test result(s): Please refer to next page(s)

Approved by:

Code: gy463u2z6s

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Reference Method:

No.	Substance Name(s)	Reference Method and Equipments	Substance Classification
1	Anthracene	US EPA 3540C:1996 GC-MS	PBT
2	Benzyl butyl phthalate (BBP)	US EPA 8061A:1996 GC-MS	Toxic for reproduction, cat.2
3	Dibutyl phthalate (DBP)	US EPA 8061A:1996 GC-MS	Toxic for reproduction, cat.2
4	Bis(2-ethylhexyl) phthalate (DEHP)	US EPA 8061A:1996 GC-MS	Toxic for reproduction, cat.2
5	HBCDD (α -HBCDD, β -HBCDD, γ -HBCDD)	US EPA 3550C:2007 GC-MS	PBT
6	4,4'-Diaminodiphenylmethane	EN 14362-1:2012 GC-MS	Carcinogen, cat.2
7	Short chain chlorinated paraffins (SCCP)	US EPA 3540C:1996 GC-MS	PBT vPvB
8	Musk xylene	US EPA 3550C:2007 GC-MS	vPvB
9	Triethyl arsenate ⁽¹⁾	US EPA 3052:1996 ICP-OES	Carcinogen, cat.1
10	Bis(tributyltin) oxide (TBTO)	ISO 17353:2005 GC-MS	PBT
11	Cobalt dichloride ⁽¹⁾	US EPA 3052:1996 BS EN 14582:2007 ICP-OES/IC	CMR
12	Diarsenic pentaoxide ⁽¹⁾	US EPA 3052:1996 ICP-OES	Carcinogen, cat.1
13	Diarsenic trioxide ⁽¹⁾	US EPA 3052:1996 ICP-OES	Carcinogen, cat.1
14	Sodium dichromate ⁽¹⁾	US EPA 3052:1996 US EPA 3060A:1996 US EPA 9056A:2007 ICP-OES/UV-Vis	Carcinogen, cat.2 Mutagen, cat.2 Toxic for reproduction, cat.2
15	Lead hydrogen arsenate ⁽¹⁾	US EPA 3052:1996 ICP-OES	Carcinogen, cat.1 Toxic for reproduction, cat.1
16	2,4-Dinitrotoluene	US EPA 3550C:2007 GC-MS	Carcinogen, cat.2
17	Anthracene oil ⁽²⁾	US EPA 3540C:1996 GC-MS	PBT

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18	Anthracene oil, anthracene paste, distn lights ⁽²⁾	US EPA 3540C:1996 GC-MS	PBT
19	Anthracene oil, anthracene paste, anthracene fraction ⁽²⁾	US EPA 3540C:1996 GC-MS	PBT
20	Anthracene oil, anthracene-low ⁽²⁾	US EPA 3540C:1996 GC-MS	PBT
21	Anthracene oil, anthracene paste ⁽²⁾	US EPA 3540C:1996 GC-MS	PBT
22	Diisobutyl phthalate (DIBP)	US EPA 8061A:1996 GC-MS	Toxic for reproduction, cat.2
23	Lead chromate ⁽³⁾	US EPA 3052:1996 US EPA 3060A:1996 ICP-OES/UV-Vis	Carcinogen, cat.2 Toxic for reproduction, cat.1
24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) ⁽³⁾	US EPA 3052:1996 US EPA 3060A:1996 ICP-OES/UV-Vis	Carcinogen, cat.2 Toxic for reproduction, cat.1
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34) ⁽³⁾	US EPA 3052:1996 US EPA 3060A:1996 ICP-OES/UV-Vis	Carcinogen, cat.2 Toxic for reproduction, cat.1
26	Tris(2-chloroethyl) phosphate (TCEP)	US EPA 3550C:2007 GC-MS	Toxic for reproduction, cat.2
27	Coal tar pitch, high temperature ⁽²⁾	US EPA 3540C:1996 GC-MS	PBT Carcinogen, cat.2
28	Acrylamide	Pony-in-house method HPLC	Carcinogen, cat.2 Mutagen, cat.2
29	Trichloroethylene	US EPA 5021:1996 HS-GC	Carcinogen, cat.2
30	Boric acid ⁽¹⁾	Pony-in-house method ICP-OES	Toxic for reproduction, cat.2
31	Disodium tetraborate, anhydrous ⁽¹⁾	Pony-in-house method ICP-OES	Toxic for reproduction, cat.2
32	Tetraboron disodium heptaoxide, hydrate ⁽¹⁾	Pony-in-house method ICP-OES	Toxic for reproduction, cat.2
33	Sodium chromate ⁽¹⁾	Pony-in-house method UV-Vis	Carcinogen, cat.2 Mutagen, cat.2 Toxic for reproduction, cat.2
34	Potassium chromate ⁽¹⁾	Pony-in-house method UV-Vis	Carcinogen, cat.2 Mutagen, cat.2

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35	Potassium dichromate ⁽¹⁾		Pony-in-house method UV-Vis	Carcinogen, cat.2 Mutagen, cat.2 Toxic for reproduction, cat.2
36	Ammonium dichromate ⁽¹⁾		Pony-in-house method UV-Vis	Carcinogen, cat.2 Mutagen, cat.2 Toxic for reproduction, cat.2
37	Cobalt(II) sulfate ⁽¹⁾		Pony-in-house method ICP-OES	Carcinogen, cat.2 Mutagen, cat.3 Toxic for reproduction, cat.2
38	Cobalt(II) dinitrate ⁽¹⁾		Pony-in-house method ICP-OES	Carcinogen, cat.2 Mutagen, cat.3 Toxic for reproduction, cat.2
39	Cobalt(II) carbonate ⁽¹⁾		Pony-in-house method ICP-OES	CMR
40	Cobalt(II) diacetate ⁽¹⁾		Pony-in-house method ICP-OES	CMR
41	2-Methoxyethanol		US EPA 3550C:2007 GC	CMR
42	2-Ethoxyethanol		US EPA 3550C:2007 GC	CMR
43	Chromium trioxide ⁽¹⁾		Pony-in-house method UV-Vis	CMR1,2
44	Chromium hemitrioxide and acid from it's oligomer ⁽¹⁾	Chromic acid	Pony-in-house method UV-Vis	CMR
		Dichromic acid	Pony-in-house method UV-Vis	CMR
		Oligomers of chromic acid and dichromic acid	Pony-in-house method UV-Vis	CMR2
45	2-Ethoxyethyl acetate		US EPA 3550C:2007 GC	CMR
46	Strontium chromate ⁽¹⁾		US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	CMR
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters ⁽²⁾ (DHNUP)		US EPA 8061A:1996 GC-MS	CMR

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48	Hydrazine	Pony-in-house method UV-Vis	CMR
49	1-Methyl-2-pyrrolidone	US EPA 3550C:2007 GC	CMR
50	1,2,3-Trichloropropane	US EPA 5021:1996 GC	CMR
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich ⁽²⁾ (DIHP)	US EPA 8061A:1996 GC-MS	CMR
52	Dichromium tris(chromate) ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	CMR
53	Potassium hydroxyoctaoxodizincatedi- chromate ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	CMR
54	Pentazinc chromate octahydroxide ⁽³⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	CMR
55	Aluminosilicate refractory ceramic fibres (RCF) ⁽³⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	CMR
56	Zirconia aluminosilicate refractory ceramic fibres (Zr-RCF) ⁽³⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	CMR
57	Formaldehyde, oligomeric reaction products with aniline ⁽³⁾	Pony-in-house method FTIR	CMR
58	Bis(2-methoxyethyl) phthalate (DMEP)	US EPA 8061A:1996 GC-MS	CMR
59	2-Methoxyaniline	EN 14362-1:2012 GC-MS	CMR
60	4-(1,1,3,3-Tetramethylbutyl) phenol	US EPA 3550C:2007 GC-MS	Equivalent concern
61	1,2-Dichloroethane	US EPA 5021:1996 GC	CMR
62	Bis(2-methoxyethyl) ether	US EPA 3550C:2007 GC	CMR
63	Arsenic acid ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	CMR

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64	Calcium arsenate ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	CMR
65	Trilead diarsenate ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	CMR
66	N,N-Dimethylacetamide	US EPA 3550C:2007 GC	CMR
67	Phenolphthalein	Pony-in-house method HPLC	CMR
68	2,2'-Dichloro-4,4'-methylenedianiline (MOCA)	EN 14362-1:2012 GC-MS	CMR
69	Lead diazide ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	CMR
70	Lead styphnate ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	CMR
71	Lead dipicrate ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	CMR
72	1,2-Bis(2-methoxyethoxy) ethane	US EPA 3550C:2007 GC	Toxic for reproduction
73	1,2-Dimethoxyethane ethylene glycol dimethyl ether	US EPA 5021:1996 HS-GC	Toxic for reproduction
74	Diboron trioxide ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
75	Formamide	US EPA 3550C:2007 GC	Toxic for reproduction
76	Lead(II) bis(methanesulfonate) ⁽¹⁾	US EPA 3052:1996 AAS	Toxic for reproduction
77	1,3,5-Tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)	Pony-in-house method GC-MS	Mutagen
78	1,3,5-Tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ⁽⁴⁾	US EPA 8270D:2014 GC-MS	Mutagen
79	4,4'-Bis(dimethylamino) benzophenone (Michler's ketone)	US EPA 8270D:2014 GC-MS	Carcinogen

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80	N,N,N',N'-Tetramethyl-4,4'-methylenedianiline (Michler's base)	US EPA 8270D:2014 GC-MS	Carcinogen
81	[4-[4,4'-Bis(dimethylamino)benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3)	Pony-in-house method HPLC	Carcinogen
82	[4-[4-Anilino-1-naphthyl] [4-(dimethylamino) phenyl] methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	Pony-in-house method HPLC	Carcinogen
83	α,α -Bis[4-(dimethylamino) phenyl]-4(phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)	Pony-in-house method HPLC	Carcinogen
84	4,4'-Bis(dimethylamino)-4''-(methylamino) trityl alcohol	Pony-in-house method HPLC	Carcinogen
85	Bis(pentabromophenyl) ether (DecaBDE)	IEC 62321-6:2015 GC-MS	PBT vPvB
86	Pentacosafuorotridecanoic acid	US EPA 3550C:2007 LC-MS/MS	vPvB
87	Tricosafuorododecanoic acid	US EPA 3550C:2007 LC-MS/MS	vPvB
88	Henicosafuoroundecanoic acid	US EPA 3550C:2007 LC-MS/MS	vPvB
89	Heptacosafuorotetradecanoic acid	US EPA 3550C:2007 LC-MS/MS	vPvB
90	4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated-covering well-defined substances and UVCB substances, polymers and homologues ⁽²⁾	US EPA 3550C:2007 HPLC	Equivalent concern
91	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 ⁽²⁾	US EPA 3550C:2007 HPLC	Equivalent concern

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92	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	US EPA 3550C:2007 HPLC	Equivalent concern
93	Cyclohexane-1,2-dicarboxylic Anhydride, cis-cyclohexane -1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	US EPA 3550C:2007 GC-MS	Equivalent concern
94	Hexahydromethylphthalicanhydride Hexahydro-4-methylphthalicanhydride Hexahydro-1-methylphthalicanhydride Hexahydro-3-methylphthalicanhydride	US EPA 3550C:2007 GC-MS	Equivalent concern
95	Methoxy acetic acid	US EPA 3550C:2007 GC	Toxic for reproduction Equivalent concern
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	US EPA 8061A:1996 GC-MS	Toxic for reproduction
97	Diisopentylphthalate (DIPP)	US EPA 8061A:1996 GC-MS	Toxic for reproduction
98	N-pentyl-isopentylphthalate	US EPA 8061A:1996 GC-MS	Toxic for reproduction
99	1,2-Diethoxyethane	US EPA 3550C:2007 GC	Toxic for reproduction
100	N,N-dimethylformamide	US EPA 3550C:2007 GC	Toxic for reproduction
101	Dibutyltin dichloride (DBT)	ISO 17353:2005 GC-MS	Toxic for reproduction
102	Acetic acid, lead salt, basic ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
103	Basic lead carbonate (Trilead bis(carbonate)dihydroxide) ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
104	Lead oxide sulfate (Basic lead sulfate) ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
105	[Phthalato(2-)] dioxotrilead	Pony-In-house method GC-MS	Toxic for reproduction
106	Dioxobis(stearato) trilead	Pony-In-house method GC	Toxic for reproduction

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107	Fatty acids, C16-18, lead salts C16-18	Pony-In-house method GC	Toxic for reproduction
108	Lead bis(tetrafluoroborate) ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
109	Lead cyanamide ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
110	Lead dinitrate ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
111	Lead oxide (Lead monoxide) ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
112	Lead tetroxide (Orange lead) ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
113	Lead titanium trioxide ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
114	Lead titanium zirconium oxide ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
115	Pentalead tetraoxide sulphate ⁽³⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
116	Pyrochlore, antimony lead yellow (C.I. Pigment Yellow 41) ⁽³⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
117	Silicic acid, barium salt, lead-doped ⁽³⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
118	Silicic acid, lead salt ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
119	Sulfurous acid, lead salt, dibasic ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
120	Tetraethyllead	US EPA 3550C:2007 GC	Toxic for reproduction

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121	Tetralead trioxide sulphate ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
122	Trilead dioxide phosphonate ⁽¹⁾	US EPA 3052:1996 US EPA 6010D:2014 ICP-OES	Toxic for reproduction
123	Furan	US EPA 5021:1996 GC	Carcinogen
124	Propylene oxide; 1,2-epoxypropane;methyloxirane	US EPA 5021:1996 GC	Carcinogen Mutagen
125	Diethyl sulphate	US EPA 3550C:2007 HPLC	Carcinogen Mutagen
126	Dimethyl sulphate	US EPA 3550C:2007 HPLC	Carcinogen
127	3-Ethyl-2-methyl-2-(3-methylbutyl)- 1,3-oxazolidine	Pony-In-house method HS-GC GC-MS	Toxic for reproduction
128	Dinoseb	US EPA 3550C:2007 HPLC	Toxic for reproduction
129	4,4'-Methylenedi-o-toluidine	EN 14362:2012 GC-MS	Carcinogen
130	4,4'-Oxydianiline and its salts	EN 14362:2012 GC-MS	Carcinogen Mutagen
131	4-Aminoazobenzene	EN 14362:2012 GC-MS	Carcinogen
132	4-Methyl-m-phenylenediamine (2,4-Toluene-diamine)	EN 14362:2012 GC-MS	Carcinogen
133	6-Methoxy-m-toluidine (p-cresidine)	EN 14362:2012 GC-MS	Carcinogen
134	Biphenyl-4-ylamine	EN 14362:2012 GC-MS	Carcinogen
135	o-Aminoazotoluene	EN 14362:2012 GC-MS	Carcinogen
136	o-Toluidine; 2-Aminotoluene	EN 14362:2012 GC-MS	Carcinogen
137	N-Methylacetamide	US EPA 3550C:2007 GC	Toxic for reproduction
138	1-Bromopropane; n-Propyl bromide	US EPA 5021:1996 GC	Toxic for reproduction

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Reference Methods:

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification
139	Cadmium	US EPA 3052:1996 ICP-OES	CMR EQC
140	Cadmium oxide ⁽¹⁾	US EPA 3052:1996 ICP-OES	CMR EQC
141	Dipentyl phthalate (DPP)	US EPA 8061A:1996 GC-MS	Toxic for reproduction
142	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] ⁽²⁾	US EPA 3550C:2007 HPLC	EQC
143	Ammonium pentadecafluorooctanoate (APFO)	US EPA 3550C:2007 LC-MS/MS	Toxic for reproduction PBT
144	Pentadecafluorooctanoic acid (PFOA)	US EPA 3550C:2007 LC-MS/MS	Toxic for reproduction PBT
145	Cadmium sulphide ⁽¹⁾	US EPA 3052:1996 ICP-OES	CMR EQC
146	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)	Pony-In-house method LC-MS/MS	Carcinogen
147	Dihexyl phthalate	US EPA 8061A:1996 GC-MS	Toxic for reproduction
148	Imidazolidine-2-thione (2-imidazoline-2-thiol)	US EPA 3550C:2007 GC-MS	Toxic for reproduction
149	Trixylyl phosphate	US EPA 3550C:2007 GC-MS	Toxic for reproduction
150	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	Pony-In-house method LC-MS/MS	Carcinogen
151	Lead di(acetate) ⁽¹⁾	US EPA 3052:1996 ICP-OES	Toxic for reproduction

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Reference Methods:

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	US EPA 8061A:1996 GC-MS	Toxic for reproduction
153	Sodium perborate; perboric acid, sodium salt ⁽¹⁾	US EPA 3052:1996 ICP-OES	Toxic for reproduction
154	Sodium peroxometaborate ⁽¹⁾	US EPA 3052:1996 ICP-OES	Toxic for reproduction
155	Cadmium chloride ⁽¹⁾	US EPA 3052:1996 ICP-OES	CMR EQC
156	2-(2'-Hydroxy-3',5'-di-tert-butylphenyl)benzotriazole (UV-320)	US EPA 3540C:1996 GC-MS	PBT vPvB
157	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	US EPA 3540C:1996 GC-MS	PBT vPvB
158	2-Ethylhexyl-10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetra decanoate (DOTE) ⁽¹⁾⁽²⁾	US EPA 3052:1996 ICP-OES	Toxic for reproduction
159	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 & MOTE) ⁽¹⁾⁽²⁾⁽³⁾	US EPA 3052:1996 ICP-OES	Toxic for reproduction
160	Cadmium fluoride ⁽¹⁾	US EPA 3052:1996 ICP-OES	CMR EQC
161	Cadmium sulphate ⁽¹⁾	US EPA 3052:1996 ICP-OES	CMR EQC
162	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 ⁽²⁾	US EPA 8061A:1996 GC-MS	Toxic for reproduction

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Reference Methods:

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification
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 isomers of [1] and [2] or any combination thereof] ⁽²⁾	US EPA 3550C:2007 GC-MS	vPvB
164	1,3-Propanesultone	Pony-In-house method GC-MS	Carcinogenic
165	2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)pheno (UV-327)	US EPA 3540C:1996 GC-MS	vPvB
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	US EPA 3540C:1996 GC-MS	vPvB
167	Nitrobenzene	US EPA 8270D:2014 GC-MS	Toxic for reproduction
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9)-heptadecafluorononanoic acid and its sodium and ammonium salts ⁽²⁾	US EPA 3550C:2007 LC-MS/MS	Toxic for reproduction PBT
169	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one (4-methylbenzylidene camphor)	US EPA 3540C:1996 GC-MS	Equivalent level of concern having probable serious effects to the environment
170	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	US EPA 3540C:1996 GC-MS	Equivalent level of concern having probable serious effects to the environment
171	Benzo[def]chrysene (Benzo[a]pyrene)	US EPA 3540C:1996 GC-MS	Carcinogenic, Mutagenic, Toxic for reproduction, PBT, vPvB
172	Dicyclohexyl phthalate (DCHP)	US EPA 8061A:1996 GC-MS	Toxic for reproduction, Equivalent level of concern having probable serious effects to human health and the environment

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Part List

No	Part Name	Test Organization	Report NO.	Date of Report
1	Lead Wire,Solder Wafer,Dice Wafer,Plating (Mix Tested)	PONY	BDCEOZ2K72866744-1	2016.06.29
2	Molding,Silicon Rubber,Uv Ink (Mix Tested)	PONY	BDCEOZ2K72866744-2	2016.06.29

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			Test result (Unit: %)	
1	Anthracene	0.0005	*	N.D.
2	Benzyl butyl phthalate (BBP)	0.005	*	N.D.
3	Dibutyl phthalate (DBP)	0.005	*	N.D.
4	Bis(2-ethylhexyl) phthalate (DEHP)	0.005	*	N.D.
5	HBCDD (α -HBCDD, β -HBCDD, γ -HBCDD)	0.005	*	N.D.
6	4,4'-Diaminodiphenylmethane	0.005	*	N.D.
7	Short chain chlorinated paraffins (SCCP)	0.01	*	N.D.
8	Musk xylene	0.005	*	N.D.
9	Triethyl arsenate ⁽¹⁾	0.005	N.D.	N.D.
10	Bis(tributyltin) oxide (TBTO)	0.01	*	N.D.
11	Cobalt dichloride ⁽¹⁾	0.01	N.D.	N.D.
12	Diarsenic pentoxide ⁽¹⁾	0.01	N.D.	N.D.
13	Diarsenic trioxide ⁽¹⁾	0.01	N.D.	N.D.
14	Sodium dichromate ⁽¹⁾	0.01	N.D.	N.D.
15	Lead hydrogen arsenate ⁽¹⁾	0.01	N.D.	N.D.
16	2,4-Dinitrotoluene	0.01	*	N.D.

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			Test result (Unit: %)	
17	Anthracene oil ⁽²⁾	0.05	*	N.D.
18	Anthracene oil, anthracene paste, distn lights ⁽²⁾	0.05	*	N.D.
19	Anthracene oil, anthracene paste, anthracene fraction ⁽²⁾	0.05	*	N.D.
20	Anthracene oil, anthracene-low ⁽²⁾	0.05	*	N.D.
21	Anthracene oil, anthracene paste ⁽²⁾	0.05	*	N.D.
22	Diisobutyl phthalate (DIBP)	0.005	*	N.D.
23	Lead chromate ⁽³⁾	0.005	N.D.	N.D.
24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) ⁽³⁾	0.005	N.D.	N.D.
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34) ⁽³⁾	0.005	N.D.	N.D.
26	Tris(2-chloroethyl) phosphate (TCEP)	0.005	*	N.D.
27	Coal tar pitch, high temperature ⁽²⁾	0.05	*	N.D.
28	Acrylamide	0.005	*	N.D.
29	Trichloroethylene	0.01	*	N.D.
30	Boric acid ⁽¹⁾	0.01	N.D.	N.D.
31	Disodium tetraborate, anhydrous ⁽¹⁾	0.01	N.D.	N.D.
32	Tetraboron disodium heptaoxide, hydrate ⁽¹⁾	0.01	N.D.	N.D.
33	Sodium chromate ⁽¹⁾	0.01	N.D.	N.D.

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NO.	SVHC	DL	1	2	
			Test result (Unit: %)		
34	Potassium chromate ⁽¹⁾	0.01	N.D.	N.D.	
35	Potassium dichromate ⁽¹⁾	0.01	N.D.	N.D.	
36	Ammonium dichromate ⁽¹⁾	0.01	N.D.	N.D.	
37	Cobalt(II) sulfate ⁽¹⁾	0.01	N.D.	N.D.	
38	Cobalt(II) dinitrate ⁽¹⁾	0.01	N.D.	N.D.	
39	Cobalt(II) carbonate ⁽¹⁾	0.01	N.D.	N.D.	
40	Cobalt(II) diacetate ⁽¹⁾	0.01	N.D.	N.D.	
41	2-Methoxyethanol	0.01	*	N.D.	
42	2-Ethoxyethanol	0.01	*	N.D.	
43	Chromium trioxide ⁽¹⁾	0.01	N.D.	N.D.	
44	Chromium hemitrioxide and acid from it's oligomer ⁽¹⁾	Chromic acid	0.01	N.D.	N.D.
		Dichromic acid			
		Oligomers of chromic acid and dichromic acid			
45	2-Ethoxyethyl acetate	0.01	*	N.D.	
46	Strontium chromate ⁽¹⁾	0.01	N.D.	N.D.	
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters ⁽²⁾ (DHNUP)	0.01	*	N.D.	

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			Test result (Unit: %)	
48	Hydrazine	0.01	*	N.D.
49	1-Methyl-2-pyrrolidone	0.01	*	N.D.
50	1,2,3-Trichloropropane	0.01	*	N.D.
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich ⁽²⁾ (DIHP)	0.01	*	N.D.
52	Dichromium tris(chromate) ⁽¹⁾	0.01	N.D.	N.D.
53	Potassium hydroxyoctaoxidizincatedi- chromate ⁽¹⁾	0.01	N.D.	N.D.
54	Pentazinc chromate octahydroxide ⁽³⁾	0.01	N.D.	N.D.
55	Aluminosilicate refractory ceramic fibres (RCF) ⁽³⁾	0.01	N.D.	N.D.
56	Zirconia aluminosilicate refractory ceramic fibres (Zr-RCF) ⁽³⁾	0.01	N.D.	N.D.
57	Formaldehyde, oligomeric reaction products with aniline ⁽³⁾	0.05	*	N.D.
58	Bis(2-methoxyethyl) phthalate (DMEP)	0.005	*	N.D.
59	2-Methoxyaniline	0.005	*	N.D.
60	4-(1,1,3,3-Tetramethylbutyl) phenol	0.005	*	N.D.
61	1,2-Dichloroethane	0.01	*	N.D.
62	Bis(2-methoxyethyl) ether	0.01	*	N.D.
63	Arsenic acid ⁽¹⁾	0.01	N.D.	N.D.

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			Test result (Unit: %)	
64	Calcium arsenate ⁽¹⁾	0.01	N.D.	N.D.
65	Trilead diarsenate ⁽¹⁾	0.01	N.D.	N.D.
66	N,N-Dimethylacetamide	0.005	*	N.D.
67	Phenolphthalein	0.01	*	N.D.
68	2,2'-Dichloro-4,4'-methylene-dianiline (MOCA)	0.005	*	N.D.
69	Lead diazide ⁽¹⁾	0.01	N.D.	N.D.
70	Lead styphnate ⁽¹⁾	0.01	N.D.	N.D.
71	Lead dipicrate ⁽¹⁾	0.01	N.D.	N.D.
72	1,2-Bis(2-methoxyethoxy) ethane	0.01	*	N.D.
73	1,2-Dimethoxyethane ethylene glycol dimethyl ether	0.01	*	N.D.
74	Diboron trioxide ⁽¹⁾	0.01	N.D.	N.D.
75	Formamide	0.01	*	N.D.
76	Lead(II) bis(methanesulfonate) ⁽¹⁾	0.01	N.D.	N.D.
77	1,3,5-Tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)	0.01	*	N.D.
78	1,3,5-Tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ⁽⁴⁾	0.01	*	N.D.
79	4,4'-Bis(dimethylamino) benzophenone (Michler's ketone)	0.01	*	N.D.

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			Test result (Unit: %)	
80	N,N,N',N'-Tetramethyl-4,4'-methylenedianiline (Michler's base)	0.01	*	N.D.
81	[4-[4,4'-Bis(dimethylamino) benzhydrylidene] cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3)	0.01	*	N.D.
82	[4-[[4-Anilino-1-naphthyl] [4- (dimethylamino) phenyl] methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	0.01	*	N.D.
83	α,α-Bis[4-(dimethylamino) phenyl]-4(phenylamino) naphthalene- 1-methanol (C.I. Solvent Blue 4)	0.01	*	N.D.
84	4,4'-Bis(dimethylamino)-4''-(methylamino) trityl alcohol	0.01	*	N.D.
85	Bis(pentabromophenyl) ether (DecaBDE)	0.005	*	N.D.
86	Pentacosafuorotridecanoic acid	0.005	*	N.D.
87	Tricosafuorododecanoic acid	0.005	*	N.D.
88	Henicosafuoroundecanoic acid	0.005	*	N.D.
89	Heptacosafuorotetradecanoic acid	0.005	*	N.D.
90	4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated-covering well-defined substances and UVCB substances, polymers and homologues ⁽²⁾	0.01	*	N.D.

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NO.	SVHC	DL	1	2
			Test result (Unit: %)	
91	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 ⁽²⁾	0.01	*	N.D.
92	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	0.005	*	N.D.
93	Cyclohexane-1,2-dicarboxylic Anhydride, cis-cyclohexane -1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	0.01	*	N.D.
94	Hexahydromethylphthalicanhydride Hexahydro-4-methylphthalicanhydride Hexahydro-1-methylphthalicanhydride Hexahydro-3-methylphthalicanhydride	0.01	*	N.D.
95	Methoxy acetic acid	0.01	*	N.D.
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	0.01	*	N.D.
97	Diisopentylphthalate (DIPP)	0.005	*	N.D.
98	N-pentyl-isopentylphthalate	0.005	*	N.D.
99	1,2-Diethoxyethane	0.01	*	N.D.
100	N,N-dimethylformamide	0.01	*	N.D.
101	Dibutyltin dichloride (DBT)	0.01	*	N.D.
102	Acetic acid, lead salt, basic ⁽¹⁾	0.01	N.D.	N.D.

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Test Report (SVHC)

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NO.	SVHC	DL	1	2
			Test result (Unit: %)	
103	Basic lead carbonate (Trilead bis(carbonate)dihydroxide) ⁽¹⁾	0.01	N.D.	N.D.
104	Lead oxide sulfate (Basic lead sulfate) ⁽¹⁾	0.01	N.D.	N.D.
105	[Phthalato(2-)] dioxotrilead (dibasic lead phthalate)	0.01	N.D.	N.D.
106	Dioxobis(stearato) trilead	0.01	N.D.	N.D.
107	Fatty acids, C16-18, lead salts C16-18	0.01	N.D.	N.D.
108	Lead bis(tetrafluoroborate) ⁽¹⁾	0.01	N.D.	N.D.
109	Lead cyanamate ⁽¹⁾	0.01	N.D.	N.D.
110	Lead dinitrate ⁽¹⁾	0.01	N.D.	N.D.
111	Lead oxide (Lead monoxide) ⁽¹⁾	0.01	N.D.	N.D.
112	Lead tetroxide (Orange lead) ⁽¹⁾	0.01	N.D.	N.D.
113	Lead titanium trioxide ⁽¹⁾	0.01	N.D.	N.D.
114	Lead titanium zirconium oxide ⁽¹⁾	0.01	N.D.	N.D.
115	Pentalead tetraoxide sulphate ⁽³⁾	0.01	N.D.	N.D.
116	Pyrochlore, antimony lead yellow (C.I. Pigment Yellow 41) ⁽³⁾	0.01	N.D.	N.D.
117	Silicic acid, barium salt, lead-doped ⁽³⁾	0.01	N.D.	N.D.
118	Silicic acid, lead salt ⁽¹⁾	0.01	N.D.	N.D.
119	Sulfurous acid, lead salt, dibasic ⁽¹⁾	0.01	N.D.	N.D.

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NO.	SVHC	DL	1	2
			Test result (Unit: %)	
120	Tetraethyllead	0.01	N.D.	N.D.
121	Tetralead trioxide sulphate ⁽¹⁾	0.01	N.D.	N.D.
122	Trilead dioxide phosphonate ⁽¹⁾	0.01	N.D.	N.D.
123	Furan	0.01	*	N.D.
124	Propylene oxide; 1,2-epoxypropane;methyloxirane	0.01	*	N.D.
125	Diethyl sulphate	0.01	*	N.D.
126	Dimethyl sulphate	0.01	*	N.D.
127	3-Ethyl-2-methyl-2-(3-methylbutyl)- 1,3-oxazolidine	0.01	*	N.D.
128	Dinoseb	0.01	*	N.D.
129	4,4'-Methylenedi-o-toluidine	0.005	*	N.D.
130	4,4'-Oxydianiline and its salts	0.005	*	N.D.
131	4-Aminoazobenzene	0.005	*	N.D.
132	4-Methyl-m-phenylenediamine (2,4-Toluene-diamine)	0.005	*	N.D.
133	6-Methoxy-m-toluidine (p-cresidine)	0.005	*	N.D.
134	Biphenyl-4-ylamine	0.005	*	N.D.
135	o-Aminoazotoluene	0.005	*	N.D.
136	o-Toluidine; 2-Aminotoluene	0.005	*	N.D.

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NO.	SVHC	DL	1	2
			Test result (Unit: %)	
137	N-methylacetamide	0.01	*	N.D.
138	1-Bromopropane; n-propyl bromide	0.01	*	N.D.
139	Cadmium	0.005	N.D.	N.D.
140	Cadmium oxide ⁽¹⁾	0.005	N.D.	N.D.
141	Dipentyl phthalate (DPP)	0.005	*	N.D.
142	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] ⁽²⁾	0.01	*	N.D.
143	Ammonium pentadecafluorooctanoate (APFO)	0.005	*	N.D.
144	Pentadecafluorooctanoic acid (PFOA)	0.005	*	N.D.
145	Cadmium sulphide ⁽¹⁾	0.005	N.D.	N.D.
146	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)	0.01	*	N.D.
147	Dihexyl phthalate	0.005	*	N.D.

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NO.: BDCEOZ2K72866744

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NO.	SVHC	DL	1	2
		Test result (Unit: %)		
148	Imidazolidine-2-thione (2-imidazoline-2-thiol)	0.01	*	N.D.
149	Trixylyl phosphate	0.05	*	N.D.
150	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)	0.01	*	N.D.
151	Lead di(acetate) ⁽¹⁾	0.01	N.D.	N.D.
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	0.005	*	N.D.
153	Sodium perborate; perboric acid, sodium salt ⁽¹⁾	0.01	N.D.	N.D.
154	Sodium peroxometaborate ⁽¹⁾	0.01	N.D.	N.D.
155	Cadmium chloride ⁽¹⁾	0.01	N.D.	N.D.
156	2-(2'-Hydroxy-3',5'-di-tert-butylphenyl)benzotriazole (UV-320)	0.01	*	N.D.
157	2-(2H-benzotriazol-2-yl)-4, 6-ditertpentylphenol (UV-328)	0.01	*	N.D.
158	2-Ethylhexyl-10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) ⁽¹⁾⁽²⁾	0.05	N.D.	N.D.
159	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 & MOTE) ⁽¹⁾⁽²⁾⁽³⁾	0.05	N.D.	N.D.

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Test Report (SVHC)

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NO	SVHC	DL	1	2
		Test result (Unit: %)		
160	Cadmium fluoride ⁽¹⁾	0.01	N.D.	N.D.
161	Cadmium sulphate ⁽¹⁾	0.01	N.D.	N.D.
162	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 ⁽²⁾	0.01	*	N.D.
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1, 3-dioxane [1], 5-sec-butyl-2-(4,6-dimethyl- cyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof] ⁽²⁾	0.01	*	N.D.
164	1,3-Propanesultone	0.01	*	N.D.
165	2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	0.01	*	N.D.
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	0.01	*	N.D.
167	Nitrobenzene	0.01	*	N.D.
168	Perfluoronon-1-oiic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9)-heptadecafluorononanoic acid and its sodium and ammonium salts ⁽²⁾	0.005	*	N.D.
169	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2 .2.1]heptane-2-one (4-methylbenzylidene camphor)	0.01	*	N.D.

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Test Report (SVHC)

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NO.	SVHC	DL	1	2
		Test result (Unit: %)		
170	1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	0.01	*	N.D.
171	Benzo[def]chrysene (Benzo[a]pyrene)	0.001	*	N.D.
172	Dicyclohexyl phthalate (DCHP)	0.005	*	N.D.

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Test Report

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(SVHC)

Note:

DL = Detection Limit

N.D. = Not Detected (<DL)

0.1 % = 1000 mg/kg = 1000 ppm

mg/kg = ppm

PBT=Persistent, bioaccumulative and toxic; vPvB=very Persistent very Bioaccumulative

- (1) Concentration value of cobalt dichloride is by the conversion from the test results of cobalt (Co) and chlorine (Cl). Concentration value of triethyl arsenate cobalt(II) sulfate, cobalt(II) dinitrate, cobalt(II) carbonate, cobalt(II) diacetate are by the conversion from the test results of cobalt (Co) and acid. Concentration value of diarsenic pentaoxide, diarsenic trioxide, sodium dichromate, lead hydrogen arsenate, boric acid, disodium tetraborate, anhydrous, tetraboron disodium heptaoxide, hydrate, sodium chromate, potassium chromate, potassium dichromate, ammonium dichromate, chromium trioxide, chromium hemitrioxide and acid from it's oligomer, strontium chromate, dichromium tris(chromate), potassium hydroxyoctaoxidizincatedi-chromate, arsenic acid, calcium arsenate, trilead diarsenate, lead diazide, lead styphnate, lead dipicrate, diboron trioxide, lead(II) bis(methanesulfonate), acetic acid, lead salt, basic, basic lead carbonate, lead oxide sulfate, lead bis(tetrafluoroborate), lead cyanamide, lead dinitrate, lead oxide, lead tetroxide, lead titanium trioxide, lead titanium zirconium oxide, silicic acid, lead salt, sulfurous acid, lead salt, dibasic, tetralead trioxide sulphate, trilead dioxide phosphonate, cadmium oxide, cadmium sulphide, lead di(acetate), sodium perborate; perboric acid, sodium salt, sodium peroxometaborate, cadmium chloride, DOTE, reaction mass of DOTE & MOTE, cadmium fluoride and cadmium sulphate are by the conversion from the test results of corresponding inorganic elements.
- (2) In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.
- (3) When tested substances contain variable compounds, the test results are calculated based on main constituents of the representative compounds for the substances. The test results of the representative compounds are calculated based on the result of specified heavy metal elements.
- (4) TGIC is a mixture and also contains β -TGIC. According to the ECHA's technical dossier the ratio of β -TGIC to TGIC is around 1 to 10. Therefore β -TGIC is issued based on the above-mentioned ratio.

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Test Report

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(SVHC)

Remarks:

- (1) The chemical analysis of 172 SVHC is performed by means of currently available analytical. Techniques in the list published by ECHA on 28 Oct 2008, 13 Jan 2010, 30 Mar 2010, 18 Jun 2010, 15 Dec 2010, 20 Jun 2011, 19 Dec 2011, 18 Jun 2012, 19 Dec 2012, 20 Jun 2013, 16 Dec 2013, 16 Jun 2014, 17 Dec 2014, 15 Jun 2015, 17 Dec 2015, and 29 Feb 2016 shall refer to:
<http://echa.europa.eu/candidate-list-table/>
- (2) In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1 % weight by weight (w/w).
- (3) Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1 % weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.
- (4) Requirement according to clients, the items with no test are marked with*.
- (5) The mixing sample test was performed as client's request. Result obtained only gives informality value and does not represent individual sample material.

Sample No. & Photo:



Pony authenticate the photo on original report only

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(SVHC)

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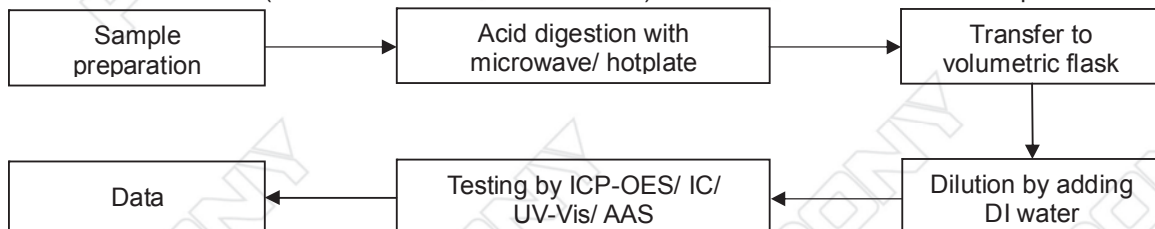
Measurement Flow-chart

Tested by: Liu Liang

Checked by: Wang Yunxia

Person in charge of the lab by: Cao Jia

- 1 Determination of triethyl arsenate/ cobalt dichloride/ diarsenic pentaoxide/ diarsenic trioxide/ sodium dichromate/ lead hydrogen arsenate/ lead chromate/ lead chromate molybdate sulphate red/ lead sulfochromate yellow/ boric acid/ disodium tetraborate, anhydrous/ tetraboron disodium heptaoxide, hydrate/ sodium chromate/ potassium chromate/ potassium dichromate/ ammonium dichromate/ cobalt(II) sulfate/ cobalt(II) dinitrate/ cobalt(II) carbonate/ cobalt(II) diacetate/ chromium trioxide/ chromium hemitrioxide and acid from it's oligomer/ strontium chromate/ hydrazine/ dichromium tris(chromate)/ potassium hydroxyoctaoxidizincatedichromate/ pentazinc chromate octahydroxide/ aluminosilicate refractory ceramic fibres/ zirconia aluminosilicate refractory ceramic fibres/ arsenic acid/ calcium arsenate/ trilead diarsenate/ lead diazide/ lead styphnate/ lead dipicrate/ diboron trioxide/ lead(II) bis(methanesulfonate)/ acetic acid, lead salt, basic/ basic lead carbonate/ lead oxide sulfate/ lead bis(tetrafluoroborate)/ lead cyanamide/ lead dinitrate/ lead oxide/ lead tetroxide/ lead titanium trioxide/ lead titanium zirconium oxide/ pentalead tetraoxide sulphate/ pyrochlore, antimony lead yellow/ silicic acid, barium salt, lead-doped/ silicic acid, lead salt/ sulfurous acid, lead salt, dibasic/ tetralead trioxide sulphate/ trilead dioxide phosphonate/ cadmium/ cadmium oxide/ cadmium sulphide/ lead di(acetate)/ sodium perborate; perboric acid, sodium salt/ sodium peroxometaborate/ cadmium chloride/ 2-Ethylhexyl-10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) / 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 & MOTE)/ cadmium fluoride/ cadmium sulphate



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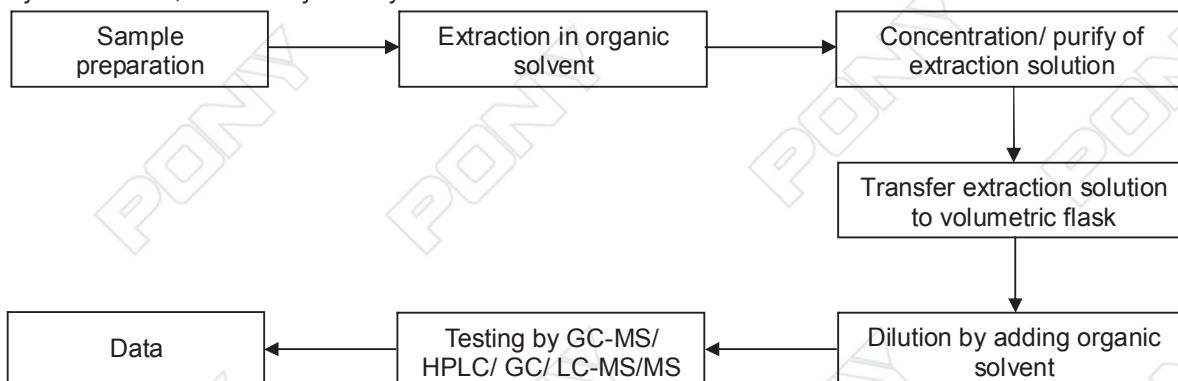
Measurement Flow-chart

Tested by: Liu Liang

Checked by: Wang Yunxia

Person in charge of the lab by: Cao Jia

- 2 Determination of anthracene/ benzyl butyl phthalate/ dibutyl phthalate/ bis(2-ethylhexyl) phthalate/ HBCDD/ 4,4'-diaminodiphenylmethane/ short chain chlorinated paraffins/ musk xylene/ bis(tributyltin) oxide/ 2,4-dinitrotoluene/ anthracene oil/ anthracene oil, anthracene paste, distn lights/ anthracene oil, anthracene paste, anthracene fraction/ anthracene oil, anthracene-low/ anthracene oil, anthracene paste / diisobutyl phthalate/ tris(2-chloroethyl) phosphate/ coal tar pitch, high temperature/ acrylamide/ trichloroethylene/ 2-methoxyethanol/ 2-ethoxyethanol/ 2-ethoxyethyl acetate/ 1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters/ 1-methyl-2-pyrrolidone/ 1,2,3-trichloropropane/ 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich/ bis(2-methoxyethyl) phthalate/ 2-methoxyaniline/ 4-(1,1,3,3-tetramethylbutyl) phenol/ 1,2-dichloroethane/ bis(2-methoxyethyl) ether/ N,N-dimethylacetamide/ phenolphthalein/ 2,2'-dichloro-4,4'-methylenedianiline/ 1,2-bis(2-methoxyethoxy) ethane/ 1,2-dimethoxyethane ethylene glycol dimethyl ether/ formamide/ 1,3,5-tris(oxiranylmethyl) -1,3,5-triazine-2,4,6-(1H,3H,5H)-trione/ 1,3,5-tris[(2S and 2R)-2,3- epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione/ 4,4'-bis(dimethylamino) benzophenone/ N,N,N',N'-tetramethyl-4,4'-methylenedianiline/ [4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride/ [4-[4-anilino-1-naphthyl] [4-(dimethylamino) phenyl] methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chlorid/ α,α -bis[4-(dimethylamino) phenyl]-4(phenylamino) naphthalene-1-methanol/ 4,4'-bis(dimethylamino)-4''-(methylamino) trityl alcohol/ bis(pentabromophenyl) ether/ pentacosfluorotridecanoic acid/ tricosfluorododecanoic acid/ henicosafluoroundecanoic acid/ heptacosfluorotetradecanoic acid/ 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated-/ 4-nonylphenol, branched and linear -substances/ diazene-1,2-dicarboxamide/ cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane -1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride



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Test Report

(SVHC)

NO.: BDCEOZ2K72866744

Date: 2016.06.29

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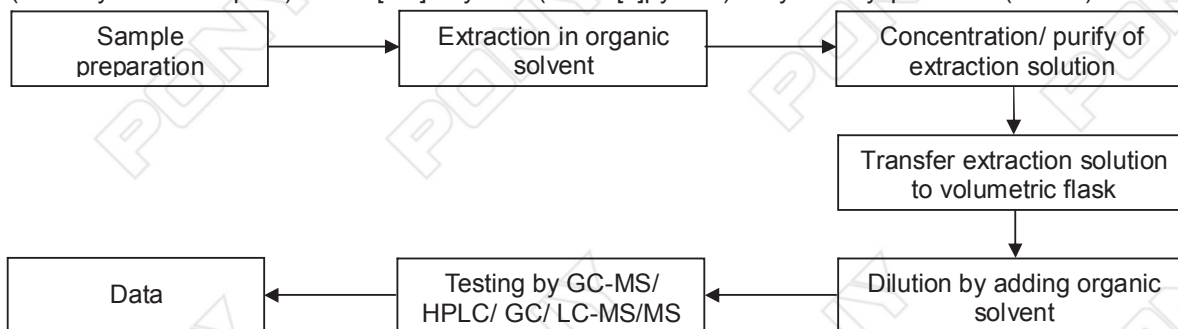
Measurement Flow-chart

Tested by: Liu Liang

Checked by: Wang Yunxia

Person in charge of the lab by: Cao Jia

- 3 Determination of hexahydromethylphthalicanhydride, hexahydro-4- methylphthalicanhydride, hexahydro-1-methylphthalicanhydride, hexahydro-3-methylphthalicanhydride/ methoxy acetic acid/ 1,2-benzenedicarboxylic acid, dipentylester, branched and linear/ diisopentylphthalate/ n-pentyl -isopentylphthalate/ 1,2-diethoxyethane/ N,N-dimethylformamide/ dibutyltin dichloride/ [phthalato(2-)] dioxotrilead/ dioxobis(stearato) trilead/ fatty acids, C16-18, lead salts C16-18/ tetraethyllead/ furan/ propylene oxide; 1,2-epoxypropane;methyloxirane/ diethyl sulphate/ dimethyl sulphate/ 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine/ dinoseb/ 4,4'-methylenedi-o-toluidine/ 4,4'-oxydianiline and its salts/ 4-aminoazobenzene/ 4-methyl-m- phenylenediamine/ 6-methoxy-m- toluidine/ biphenyl-4-ylamine/ o-aminoazotoluene/ o-toluidine/ N-methylacetamide/ 1-bromopropane/dipentyl phthalate/ 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]/ ammonium pentadecafluorooctanoate,/ pentadecafluorooctanoic acid/ C.I. Direct Black 38/ dihexyl phthalate/ imidazolidine-2-thione/ trixylyl phosphate/ C.I. Direct Red 28/ 1,2-benzenedicarboxylic acid, dihexyl ester, branched and linear/ 2-(2'-Hydroxy- 3',5'-di-tert-b utylphenyl)benzotriazole/ 2-(2h-benzotriazol-2-yl)-4, 6-ditertpentylphenol/ 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/ 5-sec-butyl-2-(2,4- dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethyl- cyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]/ 1,3-propanesultone/ UV-327/ UV-350/ nitrobenzene/ perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9) -heptadecafluorononanoic acid and its sodium and ammonium salts/(\pm)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptane-2-one (4-methylbenzylidene camphor)/ 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)/ benzo[def]chrysene (benzo[a]pyrene)/ dicyclohexyl phthalate (DCHP)



End of Report

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