

## Test Report

No. HKGEC1601105804

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SPEED GROUP HOLDINGS COMPANY LIMITED  
FLAT.18, 4/F., BLOCK A, HI-TECH INDUSTRIAL CENTRE, 5-21 PAK TIN PAR STREET,  
TSUEN WAN, N.T., H.K.

The following sample was submitted and identified on behalf of the client as: 無鉛錫制品 LEAD FREE  
SOLDER

SGS Job No. : 3608750 – HK  
Color : 銀色 SILVER  
Manufacturer : 是  
Date of Sample Received : 22 Dec 2016  
Testing Period : 22 Dec 2016 – 09 Jan 2017

Test Requested :

As requested by client, SVHC screening is performed according to:

- One hundred and sixty nine (169) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before June 20, 2016 regarding Regulation (EC) No 1907/2006 concerning the REACH.
- Six (6) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on September 06, 2016 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Result(s) : Please refer to next page(s).

Summary :

According to the specified scope and analytical techniques, concentrations of tested SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	PASS
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Signed for and on behalf of  
SGS Hong Kong Ltd



Lam Ka Yung, Allen  
Chemist

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### Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:

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

These lists are under evaluation by ECHA and may subject to change in the future.

2. Test results in this report are based on the tested sample.  
This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article.
3. SGS adopts the interpretation of ECHA for SVHC in article unless indicated otherwise. Detail explanation is available at the following link:
  - <http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>
4. If a SVHC is found over 0.1% (w/w), client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.
5. If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

### Test Sample:

#### Sample Description:

Group No.	Component No.	Component Description
A	1.	Silvery Metal (HKG16-011058.003)

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### Test Method:

SGS In-House method - Analyzed by ICP-OES, GC-MS, UV-VIS, HPLC-DAD, HPLC-MS and colorimetric method

### Test Result: (Substances in the candidate list of SVHC) (per test group):

Batch	Substance Name	CAS No./ EC No.	RL (%)	Concentration (%)
				<u>A</u>
-	All tested SVHC	-	-	ND

### Test Result: (Substances in the consultation list of SVHC) (per test group):

Batch	Substance Name	CAS No./ EC No.	RL (%)	Concentration (%)
				<u>A</u>
-	All tested SVHC in consultation list	-	-	ND

### Notes :

1. RL = Reporting Limit. All RL are based on homogenous material  
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
2. \* The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:  
<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, sodium, chromium, chromium (VI), silicon, aluminum, zirconium, zinc, antimony, calcium, titanium, barium, potassium, strontium and cadmium respectively), except molybdenum RL = 0.0005%, boron RL = 0.0025%.

3. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.

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Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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**Appendix**

No.	Substance Name	CAS No./ EC No.	No.	Substance Name	CAS No./ EC No.
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Oct 28, 2008 (Batch I)					
1	4,4'-Diaminodiphenylmethane (MDA)	101-77-9/ 202-974-4	2	5-tert-butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene)	81-15-2/ 201-329-4
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8/ 287-476-5	4	Anthracene	120-12-7/ 204-371-1
5	Benzyl butyl phthalate (BBP)	85-68-7/ 201-622-7	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7/ 204-211-0
7	Bis(tributyltin)oxide (TBTO)	56-35-9/ 200-268-0	8	Cobalt dichloride*	7646-79-9/ 231-589-4
9	Diarsenic pentaoxide*	1303-28-2/ 215-116-9	10	Diarsenic trioxide*	1327-53-3/ 215-481-4
11	Dibutyl phthalate (DBP)	84-74-2/ 201-557-4	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4/ 247-148-4; 3194-55-6/ 221-695-9; (134237-50-6/-; 134237-51-7/-; 134237-52-8/-)
13	Lead hydrogen arsenate*	7784-40-9/ 232-064-2	14	Sodium dichromate*	7789-12-0 10588-01-9/ 234-190-3
15	Triethyl arsenate*	15606-95-8/ 427-700-2			
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 13, 2010 (Batch II)					
16	2,4-Dinitrotoluene	121-14-2/ 204-450-0	17	Anthracene oil*	90640-80-5/ 292-602-7
18	Anthracene oil, anthracene paste*	90640-81-6/ 292-603-2	19	Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2/ 295-275-9
20	Anthracene oil, anthracene paste; distn. Lights*	91995-17-4/ 295-278-5	21	Anthracene oil, anthracene-low*	90640-82-7/ 292-604-8
22	Diisobutyl phthalate	84-69-5/ 201-553-2	23	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8/ 235-759-9
24	Lead chromate*	7758-97-6/ 231-846-0	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2/ 215-693-7
26	Pitch, coal tar, high temp.*	65996-93-2/ 266-028-2	27	Tris(2-chloroethyl)phosphate	115-96-8/ 204-118-5
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Mar 30, 2010 (Batch III)					
28	Acrylamide	79-06-1/ 201-173-7			
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2010 (Batch IV)					
29	Ammonium dichromate*	7789-09-5/ 232-143-1	30	Boric acid*	10043-35-3/ 233-139-2; 11113-50-1/ 234-343-4

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31	Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3/ 215-540-4	32	Potassium chromate*	7789-00-6/ 232-140-5
33	Potassium dichromate*	7778-50-9/ 231-906-6	34	Sodium chromate*	7775-11-3/ 231-889-5
35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1/ 235-541-3	36	Trichloroethylene	79-01-6/ 201-167-4
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 15, 2010 (Batch V)					
37	2-Ethoxyethanol	110-80-5/ 203-804-1	38	2-Methoxyethanol	109-86-4/ 203-713-7
39	Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid*	7738-94-5/ 231-801-5; 13530-68-2/ 236-881-5	40	Chromium trioxide*	1333-82-0/ 215-607-8
41	Cobalt(II) carbonate*	513-79-1/ 208-169-4	42	Cobalt(II) diacetate*	71-48-7/ 200-755-8
43	Cobalt(II) dinitrate*	10141-05-6/ 233-402-1	44	Cobalt(II) sulphate*	10124-43-3/ 233-334-2
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2011 (Batch VI)					
45	1,2,3-Trichloropropane	96-18-4/ 202-486-1	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6/ 276-158-1
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4/ 271-084-6	48	1-Methyl-2-pyrrolidone	872-50-4/ 212-828-1
49	2-Ethoxyethyl acetate	111-15-9/ 203-839-2	50	Hydrazine	7803-57-8 302-01-2/ 206-114-9
51	Strontium chromate*	7789-06-2/ 232-142-6			
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2011 (Batch VII)					
52	1,2-Dichloroethane	107-06-2/ 203-458-1	53	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4/ 202-918-9
54	2-Methoxyaniline	90-04-0/ 201-963-1	55	4-tert-Octylphenol	140-66-9/ 205-426-2
56	Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	57	Arsenic acid*	7778-39-4/ 231-901-9
58	Bis(2-methoxyethyl) ether	111-96-6/ 203-924-4	59	Bis(2-methoxyethyl) phthalate	117-82-8/ 204-212-6
60	Calcium arsenate*	7778-44-1/ 231-904-5	61	Dichromium tris(chromate)*	24613-89-6/ 246-356-2

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62	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4/ 500-036-1	63	Lead diazide*	13424-46-9/ 236-542-1
64	Lead dipicrate*	6477-64-1/ 229-335-2	65	Lead styphnate*	15245-44-0/ 239-290-0
66	N,N-dimethylacetamide (DMAC)	127-19-5/ 204-826-4	67	Pentazinc chromate octahydroxide*	49663-84-5/ 256-418-0
68	Phenolphthalein	77-09-8/ 201-004-7	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9/ 234-329-8
70	Trilead diarsenate*	3687-31-8/ 222-979-5	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2012 (Batch VIII)					
72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5/ 219-943-6	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9/ 208-953-6
74	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2/ 203-977-3	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4/ 203-794-9
76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8/ 202-027-5	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1/ 209-218-2
78	Diboron trioxide*	1303-86-2/ 215-125-8	79	Formamide	75-12-7/ 200-842-0
80	Lead(II) bis(methanesulfonate)*	17570-76-2/ 401-750-5	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1/ 202-959-2
82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9/ 219-514-3	83	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0/ 229-851-8
84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6/ 423-400-0			
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2012 (Batch IX)					
85	[Phthalato(2-)]dioxotrilead*	69011-06-9/ 273-688-5	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0/ 284-032-2
87	1,2-Diethoxyethane	629-14-1/ 211-076-1	88	1-Bromopropane	106-94-5/ 203-445-0
89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2/ 421-150-7	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-
91	4,4'-Methylenedi- <i>o</i> -toluidine	838-88-0/ 212-658-8	92	4,4'-Oxydianiline	101-80-4/ 202-977-0
93	4-Aminoazobenzene	60-09-3/ 200-453-6	94	4-Methyl- <i>m</i> -phenylenediamine	95-80-7/ 202-453-1

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95	4-Nonylphenol, branched and linear	-	96	6-Methoxy- <i>m</i> -toluidine	120-71-8/ 204-419-1
97	Acetic acid, lead salt, basic*	51404-69-4/ 257-175-3	98	Biphenyl-4-ylamine	92-67-1/ 202-177-1
99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5/ 214-604-9	100	C,C'-azodi(formamide) (ADCA)	123-77-3/ 204-650-8
101	Dibutyltin dichloride (DBT)	683-18-1/ 211-670-0	102	Diethyl sulphate	64-67-5/ 200-589-6
103	Diisopentylphthalate (DIPP)	605-50-5/ 210-088-4	104	Dimethyl sulphate	77-78-1/ 201-058-1
105	Dinoseb	88-85-7/ 201-861-7	106	Dioxobis(stearato)trilead*	12578-12-0/ 235-702-8
107	Fatty acids, C16-18, lead salts*	91031-62-8/ 292-966-7	108	Furan	110-00-9/ 203-727-3
109	Henicosafuoroundecanoic acid	2058-94-8/ 218-165-4	110	Heptacosafuorotetradecanoic acid	376-06-7/ 206-803-4
111	Hexahydro-2-benzofuran-1,3-dione, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7/ 201-604-9; 13149-00-3/ 236-086-3; 14166-21-3/ 238-009-9	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0/ 247-094-1; 19438-60-9/ 243-072-0; 48122-14-1/ 256-356-4; 57110-29-9/ 260-566-1
113	Lead bis(tetrafluoroborate)*	13814-96-5/ 237-486-0	114	Lead cyanamidate*	20837-86-9/ 244-073-9
115	Lead dinitrate*	10099-74-8/ 233-245-9	116	Lead monoxide*	1317-36-8/ 215-267-0
117	Lead oxide sulphate*	12036-76-9/ 234-853-7	118	Lead tetroxide*	1314-41-6/ 215-235-6
119	Lead titanium trioxide*	12060-00-3/ 235-038-9	120	Lead titanium zirconium oxide*	12626-81-2/ 235-727-4
121	Methoxyacetic acid	625-45-6/ 210-894-6	122	N,N-Dimethylformamide	68-12-2/ 200-679-5
123	N-Methylacetamide	79-16-3/ 201-182-6	124	N-Pentyl-isopentylphthalate	776297-69-9 /-
125	<i>o</i> -Aminoazotoluene	97-56-3/ 202-591-2	126	<i>o</i> -Toluidine	95-53-4/ 202-429-0
127	Pentacosafuorotridecanoic acid	72629-94-8/ 276-745-2	128	Pentalead tetraoxide sulphate*	12065-90-6/ 235-067-7
129	Propylene oxide	75-56-9/ 200-879-2	130	Pyrochlore, antimony lead yellow*	8012-00-8/ 232-382-1
131	Silicic acid, barium salt, lead-doped*	68784-75-8/ 272-271-5	132	Silicic acid, lead salt*	11120-22-2/ 234-363-3
133	Sulfurous acid, lead salt, dibasic*	62229-08-7/ 263-467-1	134	Tetraethyllead*	78-00-2/ 201-075-4
135	Tetralead trioxide sulphate*	12202-17-4/ 235-380-9	136	Tricosafuorododecanoic acid	307-55-1/ 206-203-2

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137	Trilead bis(carbonate)dihydroxide*	1319-46-6/ 215-290-6	138	Trilead dioxide phosphonate*	12141-20-7/ 235-252-2
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2013 (Batch X)					
139	4-Nonylphenol, branched and linear, ethoxylated	-	140	Ammoniumpentadecafluorooxalate (APFO)	3825-26-1/ 223-320-4
141	Cadmium	7440-43-9/ 231-152-8	142	Cadmium oxide*	1306-19-0/ 215-146-2
143	Di-n-pentyl phthalate	131-18-0/ 205-017-9	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1/ 206-397-9
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 16, 2013 (Batch XI)					
145	Cadmium sulphide*	1306-23-6/ 215-147-8	146	Dihexyl phthalate	84-75-3/ 201-559-5
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0/ 209-358-4	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/ 217-710-3
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7/ 202-506-9	150	Lead di(acetate)*	301-04-2/ 206-104-4
151	Trixylyl phosphate	25155-23-1/ 246-677-8		-	
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 16, 2014 (Batch XII)					
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4/ 271-093-5	153	Cadmium chloride*	10108-64-2/ 233-296-7
154	Sodium perborate; perboric acid, sodium salt*	- / 234-390-0; 239-172-9	155	Sodium peroxometaborate*	7632-04-4/ 231-556-4
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2014 (Batch XIII)					
156	Cadmium fluoride*	7790-79-6/ 232-222-0	157	Cadmium sulphate*	10124-36-4; 31119-53-6/ 233-331-6
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7/ 223-346-6	159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1/ 247-384-8

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160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1/ 239-622-4	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)	-
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Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 15, 2015 (Batch XIV)

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 (EC No. 201-559-5)	68515-51-5; 68648-93-1/ 271-094-0; 272-013-1	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]	-
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Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2015 (Batch XV)

164	1,3-propanesultone	1120-71-4 / 214-317-9	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1 / 223-383-8
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3 / 253-037-1	167	Nitrobenzene	98-95-3 / 202-716-0
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorononanoic acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4 / 206-801-3	-	-	-

No.	Substance Name	CAS No./ EC No.	No.	Substance Name	CAS No./ EC No.
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2016 (Batch XVI)					
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8 / 200-028-5			

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
Consultation List of Substances of Very High Concern (SVHC) for authorization published on Sep 06, 2016							
1	4,4'-Isopropylidenediphenol (Bisphenol A)	80-05-7 / 201-245-8	0.050	2	4-Heptylphenol, branched and linear	-	0.050
3	4-tert-Butylphenol	98-54-4 / 202-679-0	0.050	4	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (Trimellitic anhydride)	552-30-7 / 209-008-0	0.050
5	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7; 335-76-2; 3830-45-3 / 221-470-5; 206-400-3; -	0.050	6	p-(1,1-dimethylpropyl)phenol	80-46-6 / 201-280-9	0.050

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