



## Shenzhen Toby Technology Co., Ltd.

1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang

Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China

Tel: (86) 755-26509301/02 Fax: (86) 755-26509195 Http: // www.tobylab.cn

# TEST REPORT (SVHC)

### SAMPLE INFORMATION:

1. **Sample Description:** ANC Earbuds
2. **Sample Model:** X7, X5, X6, X8, X9, X10
3. **Brand Name:** ITOLK
4. **Sample Quantity:** 2 PCS
5. **Manufacturer:** SUNSTAR DIGI (H. K.) CO., LTD.
6. **Manufacturer Address:** Floor 3 F Building, Guanlong 1st Industrial Zone, Xili Town, Nanshan District, Shenzhen, Guangdong, China

### CLIENT INFORMATION

1. **Applicant:** SUNSTAR DIGI (H. K.) CO., LTD.
2. **Applicant Address:** Floor 3 F Building, Guanlong 1st Industrial Zone, Xili Town, Nanshan District, Shenzhen, Guangdong, China
3. **Applicant Post Code:** -----

### TEST INFORMATION:

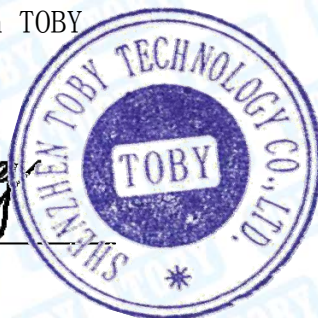
1. **Applicant No:** 191124294
2. **Test Items and Requested:** Two hundred and one (201) Substances of Very High Concern (SVHC) Screening. SVHC candidate list based on the publication by European Chemicals Agency (ECHA) on 2019 July 16, regarding Regulation (EC) No 1907/2006 concerning the REACH.
3. **Date of Receipt:** Nov. 25, 2019
4. **Date of Test:** Nov. 25-29, 2019

### REMARKS:

1. The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.
2. According to the interpretation of ECHA and the majority of EU member states on the definition of an article as well as the specified scope and analytical technique, concentrations of all SVHC are <0.1% in the submitted sample(s).
3. **Sample State:** Solid
4. **Sample Package:** Intact
5. **Ambient Condition During Testing:** 22℃, 58% RH.

Signed for Shenzhen TOBY

Justin Zhang  
Manager





# TEST REPORT (SVHC)

Test Sample:

Sample Description:

No.	Description	Tested parts
(1)	Black plastic Silicone material Black plastic shell Gray plastic shell Mixed plastic parts	Non-metallic materials
(2)	White wire jacket Blue wire jacket Red wire jacket Black wire jacket Black plastic wire jacket	Non-metallic materials
(3)	Silvery metal Copper-colored metal Silvery magnetic metal Mixed metal parts	Metallic materials
(4)	PCB mixed	Electrical components

Remark:

1. Definition of classification is listed in **Appendix A** of this report in accordance with 67/548/EEC and Regulation(EC) No.1907/2006

**Test Method:**

1. Acid digestion and analyzed by ICP-OES;
2. Solvent extraction and analyzed by GC/MS and GC/ECD.

**Remark:**

1. The chemical analysis of 201 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2019 July 16.  
(refer to) <http://echa.europa.eu/web/guest/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 2 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



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## TEST REPORT (SVHC)

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- allow safe use of the article including, as a minimum, the name of that substance.
4. If a SVHC is found over the reporting limit, 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.



# TEST REPORT (SVHC)

Test Result(s): (Substances in the Candidate List of SVHC)

NO.	Substance Name	CAS number	Concentration (%)	
			(1)	(2)
-	All tested SVHC in candidate list	-	N. D.	N. D.

NO.	Substance Name	CAS number	Concentration (%)	
			(3)	(4)
-	All tested SVHC in candidate list	-	N. D.	N. D.

Full list of tested SVHC:

NO.	Substance Name	CAS number	Reporting Limit (%)	Classification
1	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.05	PBT
2	Anthracene	120-12-7	0.05	PBT
3	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.05	vPvB
4	Dibutyl phthalate (DBP)	84-74-2	0.05	Endocrine disrupting properties (Article 57(f)-human health)
5	4,4'-Diaminodiphenylmethane	101-77-9	0.05	Carcinogen Category 2
6	Benzyl butyl phthalate (BBP)	85-68-7	0.05	Endocrine disrupting properties (Article 57(f)-human health)
7	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.05	Endocrine disrupting properties (Article 57(f)-human health)
8	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4 and 3194-55-6, (134237-51-7, 134237-50-6, 134237-52-8)	0.05	PBT

# TEST REPORT (SVHC)

9	Bis(tributyltin) oxide*	56-35-9	0.05	PBT
10	Cobalt dichloride*	7646-79-9	0.005	Carcinogen Category 2, Toxic to Reproduction Category 2
11	Diarsenic pentaoxide*	1303-28-2	0.005	Carcinogen Category 1
12	Diarsenic trioxide*	1327-53-3	0.005	Carcinogen Category 1
13	Triethyl arsenate*	15606-95-8	0.005	Carcinogen Category 1
14	Lead hydrogen arsenate*	7784-40-9	0.005	Carcinogen Category 1; Toxic to Reproduction Category 1
15	Sodium dichromate*	10588-01-9 7789-12-0	0.005	Carcinogen Category 2, Mutagen Category 2 Toxic to Reproduction Category 2
16	Lead chromate	7758-97-6	0.005	/
17	Lead chromate molybdate sulphate red (C. I. Pigment Red 104)	12656-85-8	0.005	/
18	Lead sulfochromate yellow (C. I. Pigment Yellow 34)	1344-37-2	0.005	/
19	tris(2-chloroethyl) phosphate	115-96-8	0.05	/
20	Anthracene oil	90640-80-5	0.05	/
21	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	0.05	/
22	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0.05	/
23	Anthracene oil, anthracene-low	90640-82-7	0.05	/
24	Anthracene oil, anthracene paste	90640-81-6	0.05	/
25	Pitch, coal tar, high	65996-93-2	0.05	/



# TEST REPORT (SVHC)

	temp.			
26	2,4-Dinitrotoluene	121-14-2	0.05	/
27	Diisobutyl phthalate (DIBP)	84-69-5	0.05	Endocrine disrupting properties (Article 57(f)-human health)
28	Acrylamide	79-06-1	0.05	/
29	Boric acid*	10043-35-3, 11113-50-1	0.005	Toxic to Reproduction Category 2
30	Disodium tetraborate, anhydrous*	1330-43-4, 12179-04-3, 1303-96-4	0.005	Toxic to Reproduction Category 2
31	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005	Toxic to Reproduction Category 2
32	Sodium chromate*	7775-11-3	0.005	Carcinogen Category 2, Mutagen Category 2 Toxic to Reproduction Category 2
33	Potassium chromate*	7789-00-6	0.005	Carcinogen Category 2, Mutagen Category 2
34	Ammonium dichromate*	7789-09-5	0.005	Carcinogen Category 2, Mutagen Category 2 Toxic to Reproduction Category 2
35	Potassium dichromate*	7778-50-9	0.005	Carcinogen Category 2, Mutagen Category 2 Toxic to Reproduction Category 2
36	Trichloroethylene*	79-01-6	0.05	Carcinogen Category 2
37	Cobalt(II) sulphate	10124-43-3	0.005	/
38	Cobalt(II) dinitrate	10141-05-6	0.005	/
39	Cobalt(II) carbonate	513-79-1	0.005	/
40	Cobalt(II) diacetate	71-48-7	0.005	/

# TEST REPORT (SVHC)

41	Chromium trioxide	1333-82-0	0.005	/
42	Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94-5, 13530-68-2	0.005	/
43	2-Methoxyethanol	109-86-4	0.05	/
44	2-Ethoxyethanol	110-80-5	0.05	/
45	Strontium chromate**	7789-06-2	0.005	/
46	Hydrazine	7803-57-8, 302-01-2	0.05	/
47	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.05	/
48	1-methyl-2-pyrrolidone	872-50-4	0.05	/
49	2-ethoxyethyl acetate	111-15-9	0.05	/
50	1,2,3-trichloropropane	96-18-4	0.05	/
51	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.05	/
52	Dichromium tris (chromate)	24613-89-6	0.005	Carcinogen Category 2
53	Potassium hydroxyoctaoxidizincated i-chromate	11103-86-9	0.005	Carcinogen Category 2
54	octahydroxide	49663-84-5	0.005	Carcinogen Category 2
55	Aluminosilicate Refractory Ceramic Fibres	650-017-00-8	0.005	Carcinogen Category 2
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	650-017-00-8	0.005	Carcinogen Category 2
57	Formaldehyde, oligomeric reaction products with Aniline	25214-70-4	0.05	Carcinogen Category 2
58	Bis(2-methoxyethyl) phthalat	117-82-8	0.05	Toxic to Reproduction Category 2
59	2-Methoxyaniline; o-Anisidine	90-04-0	0.05	Carcinogen Category 2



# TEST REPORT (SVHC)

60	4-(1, 1, 3, 3-tetramethylbutyl) phenol, (4-tert-Octylphenol)	140-66-9	0.05	Equivalent concern
61	1,2-Dichloroethane	107-06-2	0.05	Carcinogen Category 2
62	Bis(2-methoxyethyl) ether	111-96-6	0.05	Toxic to Reproduction Category 2
63	Arsenic acid	7778-39-4	0.005	Carcinogen Category 2
64	Calcium arsenate	7778-44-1	0.005	Carcinogen Category 2
65	Trilead diarsenate	3687-31-8	0.005	Toxic to Reproduction Category 1 Carcinogen Category 2
66	N,N-dimethylacetamide	127-19-5	0.05	Toxic to Reproduction Category 2
67	Phenolphthalein	77-09-8	0.05	Carcinogen Category 2
68	2,2'-dichloro-4,4'-methylenedianiline (MOCA) 4,4	101-14-4	0.05	Carcinogen Category 2
69	Lead diazide	13424-46-9	0.005	Toxic to Reproduction Category 2
70	Lead styphnate	15245-44-0	0.005	Toxic to Reproduction Category 2
71	Lead dipicrate	6477-64-1	0.005	Toxic to Reproduction Category 2
72	1,2-bis(2-methoxyethoxy) ethane	112-49-2	0.05	Toxic to Reproduction Category 2
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether	110-71-4	0.05	Toxic to Reproduction Category 2
74	Diboron trioxide ***	1303-86-2	0.005	Toxic to Reproduction Category 2



# TEST REPORT (SVHC)

75	Formamide	75-12-7	0.05	Mutagen Category 2
76	Lead (II) bis (methanesulfonate)	17570-76-2	0.005	Toxic to Reproduction Category 2
77	TGIC (1,3,5-tris (oxiranylmethyl)-1,3,5-t riazine-2,-4,-6-(1H,3H,5 H)-trione)	2451-62-9	0.05	Mutagen Category 2
78	$\beta$ -TGIC (1,3,5- tris {(2S and 2R)-2,3-epoxypropyl} -1,3,5-triazine-2,4,6- (1H,2H,5H)-trione)	59653-74-6	0.05	Mutagen Category 2
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	0.05	Carcinogen Category 2
80	Tetramethyl-4, 4'-methylenedianiline (Michler's base)	101-61-1	0.05	Carcinogen Category 2
81	{4-{4,4'-bis (dimethylamino) benzhydrylidene} cyclohexa-2,5-dien-1-yl dene} dimethylammonium chloride (C. I. Basic Violet 3)	548-62-9	0.05	Carcinogen Category 2
82	4-{{4-anilino-1-naphthyl } {4-(dimethylamino) phenyl} methylene} dimethylammonium chloride (C. I. Basic Blue 26	2580-56-5	0.05	Carcinogen Category 2
83	$\alpha, \alpha$ -Bis{4- (dimethylamino) phenyl}-4(phenylamino) naphthalene-1-methanol (C. I. Solvent Blue 4)	6786-83-0	0.05	Carcinogen Category 2
84	4,4'-bis(dimethylamino)- 4'-(methylamino) trityl alcohol	561-41-1	0.05	Carcinogen Category 2
85	Pyrochlore, antimony lead yellow	8012-00-8	0.005	Toxic for reproduction



# TEST REPORT (SVHC)

				(Article 57 c)
86	6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.05	Carcinogenic (Article 57a)
87	Henicosaflluoroundecanoic acid	2058-94-8	0.05	vPvB (Article 57e)
88	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthal ic anhydride [2], Hexahydro-1-methylphthal ic anhydride [3], Hexahydro-3-methylphthal ic 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	0.05	Equivalent level of concern having probable serious effects to human health (Article 57f)
89	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	0.05	Equivalent level of concern having probable serious effects to human health (Article 57f)
90	Dibutyltin dichloride (DBTC)	683-18-1	0.05	Toxic for reproduction (Article 57c)
91	Lead bis (tetrafluoroborate)	13814-96-5	0.005	Toxic for reproduction (Article 57c)
92	Lead dinitrate	10099-74-8	0.005	Toxic for

# TEST REPORT (SVHC)

				reproduction (Article 57c)
93	Silicic acid, lead salt	11120-22-2	0.005	Toxic for reproduction (Article 57c)
94	4-Aminoazobenzene	60-09-3	0.05	Carcinogenic (Article 57a)
95	Lead titanium zirconium oxide	12626-81-2	0.005	Toxic for reproduction (Article 57c)
96	Lead monoxide (lead oxide)	1317-36-8	0.005	Toxic for reproduction (Article 57 c)
97	o-Toluidine	95-53-4	0.05	Carcinogenic (Article 57a)
98	3-ethyl-2-methyl-2-(3-me thylbutyl)-1,3-oxazolidi ne	143860-04-2	0.05	Toxic for reproduction (Article 57c)
99	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), 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	0.005	Toxic for reproduction (Article 57c)
100	Trilead bis(carbonate) dihydroxide	1319-46-6	0.005	Toxic for reproduction (Article 57c)
101	Furan	110-00-9	0.05	Carcinogenic (Article 57a)
102	N,N-dimethylformamide	68-12-2	0.05	Toxic for reproduction (Article 57c)

# TEST REPORT (SVHC)

103	4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-----	0.05	Equivalent level of concern having probable serious effects to the environment (Article 57f)
104	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]	-----	0.05	Equivalent level of concern having probable serious effects to the environment (Article 57f)
105	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	0.05	Carcinogenic (Article 57a)
106	Diethyl sulphate	64-67-5	0.05	Carcinogenic (Article 57a); Mutagenic (Article 57b)
107	Dimethyl sulphate	77-78-1	0.05	Carcinogenic (Article 57a)
108	Lead oxide sulfate	12036-76-9	0.005	Toxic for reproduction (Article 57c)
109	Lead titanium trioxide	12060-00-3	0.005	Toxic for reproduction (Article 57c)
110	Acetic acid, lead salt, basic	51404-69-4	0.005	Toxic for reproduction (Article 57c)
111	[Phthalato(2-)]dioxotrilead	69011-06-9	0.005	Toxic for reproduction (Article 57c)
112	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	0.05	PBT (Article 57d); vPvB (Article 57e)

# TEST REPORT (SVHC)

113	N-methylacetamide	79-16-3	0.05	Toxic for reproduction (Article 57c)
114	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.05	Toxic for reproduction (Article 57c)
115	1,2-Diethoxyethane	629-14-1	0.05	Toxic for reproduction (Article 57c)
116	Tetralead trioxide sulphate	12202-17-4	0.005	Toxic for reproduction (Article 57c)
117	N-pentyl-isopentyl phthalate	776297-69-9	0.05	Toxic for reproduction (Article 57c)
118	Dioxobis(stearato) trilead	12578-12-0	0.005	Toxic for reproduction (Article 57c)
119	Tetraethyllead	78-00-2	0.005	Toxic for reproduction (Article 57c)
120	Pentalead tetraoxide sulphate	12065-90-6	0.005	Toxic for reproduction (Article 57c)
121	Pentacosafuorotridecanoic acid	72629-94-8	0.05	vPvB (Article 57e)
122	Tricosafuorododecanoic acid	307-55-1	0.05	vPvB (Article 57e)
123	Heptacosafuorotetradecanoic acid	376-06-7	0.05	vPvB (Article 57e)
124	1-bromopropane (n-propyl bromide)	106-94-5	0.05	Toxic for reproduction (Article 57c)
125	Methoxyacetic acid	625-45-6	0.05	Toxic for reproduction (Article 57c)
126	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.05	Carcinogenic (Article 57a)
127	Methyloxirane (Propylene oxide)	75-56-9	0.05	Carcinogenic (Article 57a); Mutagenic

# TEST REPORT (SVHC)

				(Article 57b)
128	Trilead dioxide phosphonate	12141-20-7	0.005	Toxic for reproduction (Article 57 c)
129	O-aminoazotoluene	97-56-3	0.05	Carcinogenic (Article 57a)
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.05	Toxic for reproduction (Article 57c)
131	4,4'-oxydianiline and its salts	101-80-4	0.05	Carcinogenic (Article 57a); Mutagenic (Article 57b)
132	Orange lead (lead tetroxide)	1314-41-6	0.005	Toxic for reproduction (Article 57c)
133	Biphenyl-4-ylamine	92-67-1	0.05	Carcinogenic (Article 57a)
134	Diisopentyl phthalate	605-50-5	0.05	Toxic for reproduction (Article 57 c)
135	Fatty acids, C16-18, lead salts	91031-62-8	0.005	Toxic for reproduction (Article 57 c)
136	Diazene-1,2-dicarboxamide (C, C' -azodi (formamide))	123-77-3	0.05	Equivalent level of concern having probable serious effects to human health (Article 57f)
137	Sulfurous acid, lead salt, dibasic	62229-08-7	0.005	Toxic for reproduction (Article 57c)
138	Lead cyanamidate	20837-86-9	0.005	Toxic for reproduction (Article 57c)
139	Cadmium	7440-43-9	0.005	Carcinogenic (Article 57a) Equivalent level of concern having probable serious

# TEST REPORT (SVHC)

				effects to human health (Article 57f)
140	Cadmium oxide	1306-19-0	0.05	Carcinogenic (Article 57a ) Equivalent level of concern having probable serious effects to human health (Article 57f)
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.05	Toxic for reproduction (Article 57c); PBT
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.05	Toxic for reproduction (Article 57c); PBT
143	Dipentyl phthalate(DPP)	131-18-0	0.05	Toxic for reproduction (Article 57c)
144	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]	-----	0.05	Equivalent level of concern having probable serious effects to the environment (Article 57f)
145	Cadmium sulphide	1306-23-6	0.005	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57f)

## TEST REPORT (SVHC)

146	C. I. Direct Black 38	1937-37-7	0.05	Carcinogenic (Article 57a);
147	Dihexyl phthalate	84-75-3	0.05	Toxic for reproduction (Article 57c)
148	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	0.05	Toxic for reproduction (Article 57c)
149	Trixylyl phosphate	25155-23-1	0.05	Toxic for reproduction (Article 57c)
150	C. I. Direct Red 28	573-58-0	0.05	Carcinogenic (Article 57a);
151	Lead di (acetate)	301-04-2	0.005	Toxic for reproduction (Article 57c)
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.05	Toxic for reproduction (Article 57c)
153	Cadmium chloride	10108-64-2	0.005	Carcinogenic (Article 57a); Mutagenic (Article 57(b)); Toxic for Reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57f)
154	Sodium peroxometaborate	7632-04-4	0.005	Toxic for reproduction (Article 57c)
155	Sodium perborate, perboric acid, sodium salt	-----	0.005	Toxic for reproduction (Article 57c)
156	Cadmium sulphate	10124-36-4, 31119-53-6	0.005	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for



# TEST REPORT (SVHC)

				reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57f)
157	Cadmium fluoride	7790-79-6	0.005	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57f)
158	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.05	PBT (Article 57d); vPvB (Article 57e)
159	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.05	PBT (Article 57d); vPvB (Article 57e)
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.05	Toxic for reproduction (Article 57c)
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)	-----	0.05	Toxic for reproduction (Article 57c)

# TEST REPORT (SVHC)

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)	68515-51-5, 68648-93-1	0.05	Toxic for reproduction (Article 57c)
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]	-----	0.05	vPvB (Article 57e)
164	1,3-propanesultone	1120-71-4	0.05	Carcinogenic (Article 57a)
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.05	vPvB (Article 57 e)
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.05	vPvB (Article 57e)
167	Nitrobenzene	98-95-3	0.05	Toxic for reproduction (Article 57c)
168	Perfluorononan-1-oic acid and its sodium and ammonium salts	375-95-1, 21049-39-8, 4149-60-4	0.05	Toxic for reproduction (Article 57c) PBT (Article 57d)
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.05	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57d)

**TEST REPORT**(SVHC)

				vPvB (Article 57e)
170	4, 4'- isopropylidenediphenol (bisphenol A; BPA)	80-05-7	0.05	Endocrine disrupting properties (Article 57(f)-environment)
171	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2	0.05	PBT (Article 57d)
172	4-heptylphenol, branched and linear (4-HPb1)	----	0.05	Equivalent level of concern having probable serious effects to human health (Article 57f)
173	4-tert-pentylphenol (PTAP)	80-46-6	0.05	Equivalent level of concern having probable serious effects to human health (Article 57f)
174	Perfluorohexane-1- sulfonic acid and its salts (PFHxS)	----	0.05	vPvB (Article 57e)
175	Chrysene	218-01-9	0.05	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
176	Benz[a]anthracene	56-55-3	0.05	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
177	Cadmium nitrate	10325-94-7	0.05	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f)-human health)
178	Cadmium hydroxide	21041-95-2	0.05	Carcinogenic (Article 57a)

# TEST REPORT (SVHC)

				Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f)-human health)
179	Cadmium carbonate	513-78-0	0.05	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f)-human health)
180	1, 6, 7, 8, 9, 14, 15, 16, 17, 17, 18, 18- Dodecachloropentacyclo [12. 2. 1. 16, 9. 02, 13. 05, 10 ]octadeca-7, 15-diene ("Dechlorane Plus"™) [covering any of its individual anti-and syn-isomers or any combination thereof]	-----	0.05	vPvB (Article 57e)
181	Reaction products of 1, 3, 4-thiadiazolidine-2, 5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear	-----	0.05	Endocrine disrupting properties (Article 57(f)- environment)
182	Terphenyl, hydrogenated	61788-32-7	0.05	vPvB (Article 57e)
183	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.05	PBT (Article 57d) vPvB (Article 57e)
184	Lead	7439-92-1	0.05	Toxic for reproduction (Article 57c)
185	Ethylenediamine (EDA)	107-15-3	0.05	Respiratory



# TEST REPORT (SVHC)

				sensitising properties (Article 57(f)-human health)
186	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.05	PBT (Article 57d) vPvB (Article 57e)
187	Disodium octaborate	12008-41-2	0.05	Toxic for reproduction (Article 57c)
188	Dicyclohexyl phthalate (DCHP)	84-61-7	0.05	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f)-human health)
189	Decamethylcyclopentasiloxane (D5)	541-02-6	0.05	PBT (Article 57d) vPvB (Article 57e)
190	Benzo[ghi]perylene	191-24-2	0.05	PBT (Article 57d) vPvB (Article 57e)
191	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)	552-30-7	0.05	Respiratory sensitizing properties (Article 57(f)-human health)
192	Pyrene	129-00-0, 1718-52-1	0.05	PBT (Article 57d) vPvB (Article 57e)
193	Phenanthrene	85-01-8	0.05	vPvB (Article 57e)
194	Fluoranthene	206-44-0, 93951-69-0	0.05	PBT (Article 57d) vPvB (Article 57e)
195	Benzo[k]fluoranthene	207-08-9	0.05	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.05	Toxic for reproduction (Article 57c)
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)	15087-24-8	0.05	Endocrine disrupting properties (Article 57(f)-environment)
198	Tris(4-nonylphenyl,	----	0.05	Endocrine

# TEST REPORT (SVHC)

	branched and linear) phosphite (TNPP) with $\geq$ 0.1% w/w of 4-nonylphenol, branched and linear(4-NP)			disrupting properties (Article 57(f)-environment)
199	4-tert-butylphenol	98-54-4	0.05	Endocrine disrupting properties (Article 57(f)-environment)
200	2-methoxyethyl acetate	110-49-6	0.05	Toxic for reproduction (Article 57c)
201	2, 3, 3, 3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides [covering any of their individual isomers and combinations thereof]	----	0.05	Equivalent level of concern having probable serious effects to human health(Article 57(f)-human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f)-environment)

**Remark:**

1\*. Calculated concentration of cobalt dichloride is based on the identified cobalt by ICP-OES and the identified chloride by IC method.

Calculated concentration of diarsenic pentaoxide, diarsenic trioxide, lead hydrogen arsenate and triethyl arsenate are based on the identified heavy metal result (i. e. Arsenic, Lead)

Calculated concentrations of sodium dichromate are based on the identified sodium by ICP-OES and the identified chromium (VI) by spectroscopic method. The test result is reported as sodium dichromate (CAS number 10588-01-9). Please note that sodium dichromate dehydrate (CAS number 7789-12-0) is no longer classified as SVHC according to the latest amendment of 67/548/EEC (31th Adaption to Technical progress).

Calculated concentration of bis(tributyltin) oxide TBTO is based on the identified tin by ICP-OES and confirmed by TLC.



## TEST REPORT (SVHC)

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Identity of above metal substances present in the article has to be further confirmed.

RL is evaluated for element (i.e. tin, cobalt, chloride, arsenic, lead, sodium, chromium (VI) respectively)

2. N.D. = Not detected (lower than Reporting Limit)

3. RL = Reporting Limit

4. All RL is based on homogenous material

For any parameters involving confirmation test, the RL will be 0.05%

5. In case SVHC <0.1% for articles “No further obligations regarding communication along the supply chain or notification emerge from the analytical findings in the tested sample”.

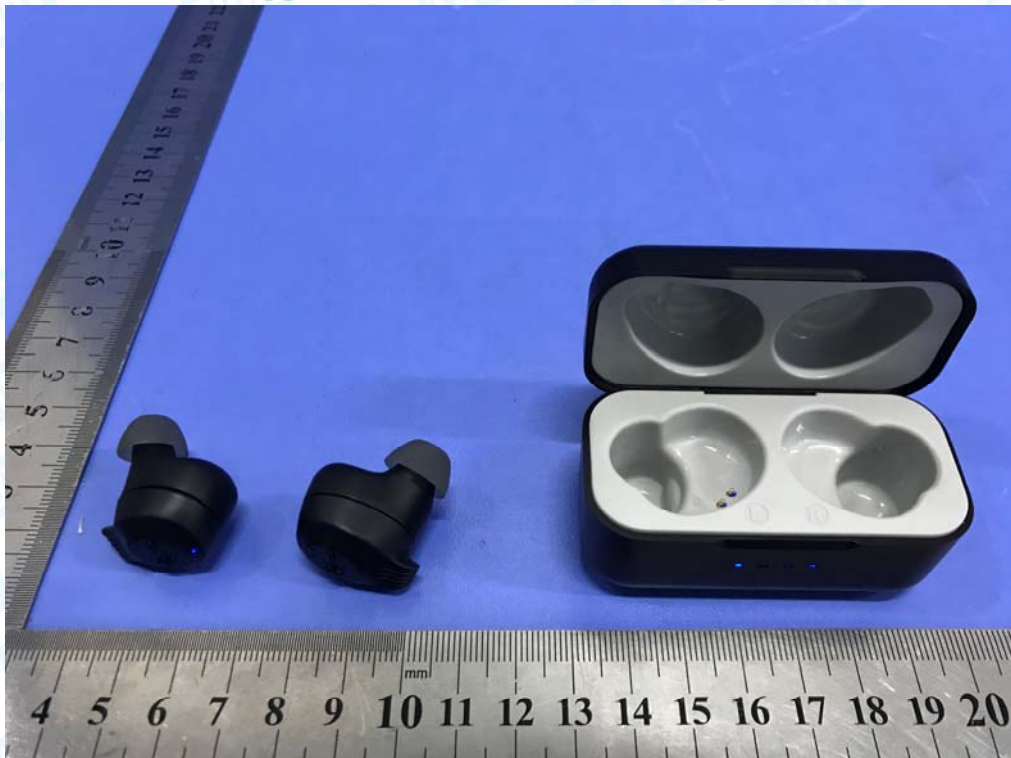
In case SVHC >0.1% for articles “Further obligations regarding communication along the supply chain or notification may emerge from the analytical findings in the tested sample”.

# TEST REPORT (SVHC)

Appearance Photo 1 of Sample



Appearance Photo 2 of Sample







# TEST REPORT (SVHC)

## Appendix A:

Classification	Definition under 67/548/EEC and Regulation (EC) No.1907/2006
Carcinogen Category 1:	Substances known to be carcinogenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and the development of cancer.
Carcinogen Category 2:	Substances which should be regarded as if they are carcinogenic to man. There is sufficient evidence to provide a strong presumption that human exposure to a substance may result in the development of cancer. Generally on the basis of: - appropriate long-term animal studies - other relevant information.
Mutagen Category 1:	Substances known to be mutagenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and heritable genetic damage.
Mutagen Category 2:	Substances which should be regarded as if they are mutagenic to man. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in the development of heritable genetic damage, generally on the basis of: - appropriate animal studies - other relevant information.
Toxic to Reproduction Category 1:	Substances known to impair fertility in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and impaired fertility. Substances known to cause developmental toxicity in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and subsequent development toxic effects in the progeny.
Toxic to Reproduction Category 2:	Substances which should be regarded as if they impair fertility in humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility on the basis of: - clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary nonspecific consequence of the other toxic effects - other relevant information. Substances which should be regarded as if they cause development toxicity to humans. There is sufficient evidence to provide a strong presumption



## TEST REPORT (SVHC)

	<p>that human exposure to the substance may result in developmental toxicity, generally on the basis of:</p> <ul style="list-style-type: none"><li>- clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects,</li><li>- Other relevant information.</li></ul>
PBT & vPvB	Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) pose a particular challenge to the chemicals safety management. For these substances a “safe” concentration in the environment cannot be established with sufficient reliability.

\*\*\*\*\* (END OF REPORT) \*\*\*\*\*