



**Test Report**

Number: SZHH01092043S1

Applicant: DONGGUAN LIYANG TOYS LTD.  
Floor 3, Building 2, Daxingwei Industry  
Xianxi, Wusha, Changan Town,  
Dongguan City, Guangdong Province

Date: Jan 19, 2017

Attn: 陈效

*This is to supersede Report No. SZHH01092043 dated Sep 26, 2016*

Sample Description:

Eleven (11) pieces of submitted sample said to be :

- Item Name : **EXPOSED.**
- Item No. : **BL-17500, BL-17501, BL-17600, BL-17601.**
- Reference No. : **BL-17000, BL-17001, BL-17100, BL-17300, BL-17101, BL- 17700, BL- 17701, BL- 17400, BL-17900**
- Applicant Specified Age : Adult.
- Grading for Testing
- Date Sample Received : Sep 13, 2016.



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Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

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To be continued

Authorized by:  
For Intertek Testing Services  
Shenzhen Ltd.

Ben N.L. Lin  
General Manager



**Intertek Testing Services Shenzhen Ltd.- Hardlines**

深圳天祥质量技术服务有限公司-轻工产品事业部

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Attention is drawn to the terms and conditions printed overleaf.



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Conclusion:

<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Tested components of submitted samples	Consent Judgment No. RG- 356892 for total Lead content based on the California Proposition 65	See test conducted
	EU REACH Regulation No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH requirement in report for details)	Meet requirement
	Screening by XRF spectroscopy and chemical confirmation test for RoHS Directive 2011/65/EU	Pass

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Remark:

No test was conducted on screened components (5)to(12),(14)to(17) & (19)to(37). All result of these components stated in the report were referred to our report SZHH001091997 dated on Sep 21, 2016.

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Authorized by:  
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Shenzhen Ltd.

Ben N.L. Lin  
General Manager



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Tests Conducted

1 Total Lead Content

Acid digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Element</u>	<u>Result (mg/kg)</u>	<u>Reporting Limit (mg/kg)</u>	<u>Limit (mg/kg)</u>
	<u>Tested Component</u>		
	<u>(1+2),(3+4)</u>		
Lead (Pb)	ND	10	90

<u>Element</u>	<u>Result (mg/kg)</u>	<u>Reporting Limit (mg/kg)</u>	<u>Limit (mg/kg)</u>
	<u>Tested Component</u>		
	<u>(5+6+7),(8+9+10),(11+12+13),(14+15)</u>		
Lead (Pb)	ND	10	100

The above limit was reference to the Consent Judgment No. RG- 356892 settled by superior court of the State of California for the county of Alameda, for toys based on the California Proposition 65.

ND = Not detected

Tested Components

- (1) pearl light pink coating on plastic (body, cap, button of light pink style)
- (2) pearl dark pink coating on plastic (body, cap, button of dark pink style)
- (3) pearl fuchsia coating on plastic (body, cap, button of fuchsia style)
- (4) pearl purple coating on plastic (body, cap, button of purple style)
- (5) light pink plastic excluding coating (body, cap, button of light pink style)
- (6) dark pink plastic excluding coating (body, cap, button of dark pink style)
- (7) fuchsia plastic excluding coating (body, cap, button of fuchsia style)
- (8) purple plastic excluding coating (body, cap, button of purple style)
- (9) light pink plastic (ring of light pink style)
- (10) dark pink plastic (ring of dark pink style)
- (11) fuchsia plastic (ring of fuchsia style)
- (12) purple plastic (ring of purple style)
- (13) green PCB (PCB of cover of battery box)
- (14) silver color metal (spring)
- (15) gold color metal sheet (conducting plate)

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Tests Conducted

2 (I) SVHC Testing Results

By Inductively Coupled Plasma Optical Emission Spectrometry, Ion Chromatography, UV-Visible Spectrophotometry, Gas Chromatographic - Mass Spectrometry, Liquid Chromatographic - Mass Spectrometry and High Performance Liquid Chromatography analysis.

Chemical Substance	Results % (w/w)θ	
	Tested groups	Whole product
	(A1)to(A3),(B1)to(B3),(C1)to(C3),(D1)to(D3)	(A),(B),(C),(D)
All tested SVHCs in Chemical list	ND	ND

SVHC = Substance of very high concern

ND = Not detected

Reporting limit = 0.050%

Δ = Determination was based on elemental analysis. The content was calculated based on assumption of worst-case.

SVHC Chemical list:

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
1	Cobalt Dichloride Δ	7646-79-9	85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5
2	Diarsenic Pentoxide Δ	1303-28-2	86	Pentacosafuorotridecanoic acid	72629-94-8
3	Diarsenic Trioxide Δ	1327-53-3	87	Tricosafuorododecanoic acid	307-55-1
4	Lead Hydrogen Arsenate Δ	7784-40-9	88	Henicosafuoroundecanoic acid	2058-94-8
5	Triethyl Arsenate Δ	15606-95-8	89	Heptacosafuorotetradecanoic acid	376-06-7

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
6	Sodium Dichromate Δ	7789-12-0, 10588-01-9	90	Diazene-1,2- dicarboxamide (C,C'- azodi(formamide))	123-77-3
7	Bis (Tributyltin) Oxide (TBTO) Δ	56-35-9	91	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

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
8	Anthracene	120-12-7	92	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4]  [The individual isomers [2], [3] and [4] (including their cis- and trans-stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0 19438-60-9 48122-14-1 57110-29-9
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	93	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]	--

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
10	Hexabromocycloodecane (HBCDD) and All Major Diastereoisomers Identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated  [covering well-defined substances and UVCB substances, polymers and homologues]	--
11	5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2	95	Methoxyacetic acid	625-45-6
12	Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	96	N,N-dimethylformamide	68-12-2
13	Dibutyl Phthalate (DBP)	84-74-2	97	Dibutyltin dichloride (DBTC) $\Delta$	683-18-1
14	Benzyl Butyl Phthalate (BBP)	85-68-7	98	Lead monoxide (Lead oxide) $\Delta$	1317-36-8
15	Short Chain Chlorinated Paraffins (C <sub>10-13</sub> )	85535-84-8	99	Orange lead (Lead tetroxide) $\Delta$	1314-41-6
16	Lead Chromate $\Delta$	7758-97-6	100	Lead bis(tetrafluoroborate) $\Delta$	13814-96-5
17	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) $\Delta$	12656-85-8	101	Trilead bis(carbonate)dihydroxide $\Delta$	1319-46-6
18	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) $\Delta$	1344-37-2	102	Lead titanium trioxide $\Delta$	12060-00-3
19	Tris (2-Chloroethyl) Phosphate	115-96-8	103	Lead titanium zirconium oxide $\Delta$	12626-81-2
20	2,4-Dinitrotoluene	121-14-2	104	Silicic acid, lead salt $\Delta$	11120-22-2

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
21	Diisobutyl Phthalate (DIBP)	84-69-5	105	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped $\Delta$  [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
22	Coal Tar Pitch, High Temperature	65996-93-2	106	1-bromopropane (n-propyl bromide)	106-94-5
23	Anthracene Oil	90640-80-5	107	Methyloxirane (Propylene oxide)	75-56-9
24	Anthracene Oil, Anthracene Paste, Distn. Lights	91995-17-4	108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
25	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2	109	Diisopentylphthalate (DIPP)	605-50-5
26	Anthracene Oil, Anthracene-low	90640-82-7	110	N-pentyl-isopentylphthalate	776297-69-9
27	Anthracene Oil, Anthracene Paste	90640-81-6	111	1,2-diethoxyethane	629-14-1
28	Acrylamide	79-06-1	112	Acetic acid, lead salt, basic $\Delta$	51404-69-4
29	Boric Acid $\Delta$	10043-35-3, 11113-50-1	113	Lead oxide sulfate $\Delta$	12036-76-9
30	Disodium Tetraborate, Anhydrous $\Delta$	1330-43-4, 12179-04-3, 1303-96-4	114	[Phthalato(2-)]dioxotrilead $\Delta$	69011-06-9

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
31	Tetraboron Disodium Heptaoxide, Hydrate Δ	12267-73-1	115	Dioxobis(stearato)trileadΔ	12578-12-0
32	Sodium Chromate Δ	7775-11-3	116	Fatty acids, C16-18, lead saltsΔ	91031-62-8
33	Potassium Chromate Δ	7789-00-6	117	Lead cyanamidateΔ	20837-86-9
34	Ammonium Dichromate Δ	7789-09-5	118	Lead dinitrateΔ	10099-74-8
35	Potassium Dichromate Δ	7778-50-9	119	Pentalead tetraoxide sulphateΔ	12065-90-6
36	Trichloroethylene	79-01-6	120	Pyrochlore, antimony lead yellowΔ	8012-00-8
37	2-Methoxyethanol	109-86-4	121	Sulfurous acid, lead salt, dibasicΔ	62229-08-7
38	2-Ethoxyethanol	110-80-5	122	TetraethylleadΔ	78-00-2
39	Cobalt Sulphate Δ	10124-43-3	123	Tetralead trioxide sulphateΔ	12202-17-4
40	Cobalt Dinitrate Δ	10141-05-6	124	Trilead dioxide phosphonateΔ	12141-20-7
41	Cobalt Carbonate Δ	513-79-1	125	Furan	110-00-9
42	Cobalt Diacetate Δ	71-48-7	126	Diethyl sulphate	64-67-5
43	Chromium Trioxide Δ	1333-82-0	127	Dimethyl sulphate	77-78-1
44	Chromic Acid Δ Dichromic Acid Δ Oligomers of Chromic Acid and Dichromic Acid Δ	7738-94-5 13530-68-2 --	128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
45	Strontium ChromateΔ	7789-06-2	129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7
46	2-ethoxyethyl acetate (2-EEA)	111-15-9	130	4,4'-methylenedi-o-toluidine	838-88-0
47	1,2-Benzenedicarboxylic acid, di-C <sub>7-11</sub> -branched and linear alkyl esters (DHNUP)	68515-42-4	131	4,4'-oxydianiline and its salts	101-80-4

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
48	Hydrazine	7803-57-8 302-01-2	132	4-aminoazobenzene	60-09-3
49	1-methyl-2-pyrrolidone	872-50-4	133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7
50	1,2,3-trichloropropane	96-18-4	134	6-methoxy-m-toluidine (p-cresidine)	120-71-8
51	1,2-Benzenedicarboxylic acid, di-C <sub>6-8</sub> -branched alkyl esters, C <sub>7</sub> -rich (DIHP)	71888-89-6	135	Biphenyl-4-ylamine	92-67-1
52	Lead dipicrate $\Delta$	6477-64-1	136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3
53	Lead styphnate $\Delta$	15245-44-0	137	o-toluidine	95-53-4
54	Lead azide; Lead diazide $\Delta$	13424-46-9	138	N-methylacetamide	79-16-3
55	Phenolphthalein	77-09-8	139	Cadmium $\Delta$	7440-43-9
56	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	140	Cadmium oxide $\Delta$	1306-19-0
57	N,N-dimethylacetamide (DMAC)	127-19-5	141	Dipentyl phthalate (DPP)	131-18-0
58	Trilead diarsenate $\Delta$	3687-31-8	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]	--

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
59	Calcium arsenate $\Delta$	7778-44-1	143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
60	Arsenic acid $\Delta$	7778-39-4	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1
61	Bis(2-methoxyethyl) ether	111-96-6	145	Cadmium sulphide $\Delta$	1306-23-6
62	1,2-Dichloroethane	107-06-2	146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0
63	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	147	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7
64	2-Methoxyaniline; o-Anisidine	90-04-0	148	Dihexyl phthalate (DnHP)	84-75-3
65	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7
66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	150	Lead di(acetate) $\Delta$	301-04-2
67	Pentazinc chromate octahydroxide $\Delta$	49663-84-5	151	Trixylyl phosphate	25155-23-1
68	Potassium hydroxyoctaoxidizincate di-chromate $\Delta$	11103-86-9	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (Diisohexyl phthalate(DIHP))	68515-50-4

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
69	Dichromium tris(chromate) $\Delta$	24613-89-6	153	Cadmium chloride $\Delta$	10108-64-2
70	Aluminosilicate Refractory Ceramic Fibres $\Delta$	(Index No. 650-017-00-8)	154	Sodium perborate; perboric acid, sodium salt $\Delta$	--
71	Zirconia Aluminosilicate Refractory Ceramic Fibres $\Delta$	(Index No. 650-017-00-8)	155	Sodium peroxometaborate $\Delta$	7632-04-4
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	157	2-benzotriazol-2-yl-4,6-ditert-butylphenol (UV-320)	3846-71-7
74	Diboron trioxide $\Delta$	1303-86-2	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1
75	Formamide	75-12-7	159	Cadmium fluoride $\Delta$	7790-79-6
76	Lead(II) bis(methanesulfonate) $\Delta$	17570-76-2	160	Cadmium sulphate $\Delta$	10124-36-4; 31119-53-6
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	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)	15571-58-1; 27107-89-7

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
78	$\beta$ -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	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
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	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]	117933-89-8
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	164	Nitrobenzene	98-95-3
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq$ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3
83	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	167	1,3-propanesultone	1120-71-4
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4
--	--	--	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8

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Tests Conducted

As applicant's requirement, materials were screened in composite testing and results were reported in proportion with the whole product weight.

( II ) Tested groups:

- (A1)&(B1)&(C1)&(D1): Plastic & PCB materials
- (A2)&(B2)&(C2)&(D2): Magnet material.
- (A3)&(B3)&(C3)&(D3): Metal material.

Notes:

Substances of very high concern (SVHC) are classified as:

Carcinogenic, mutagenic or toxic to reproduction category 1 (proven on humans) and category 2 (proven on animals)

Persistent, bioaccumulative and toxic chemicals (PBT)

Very persistent and very bioaccumulative chemicals (vPvB)

Other similar substances such as endocrine disrupters

If the imported or manufactured volume of each individual SVHC in article is more than 0.1% (w/w) and if it exceeds 1 tonne per year across all product ranges, then importer or manufacturer require notification to the European Chemical Agency (ECHA). For substances included in the Candidate List on or after 1 December 2010, the notifications have to be submitted no later than 6 months after the inclusion. The following information has to be submitted for notification:

- Identification of the registrant and the substance
- Classification and labelling of the substance
- Description of use of the substance and the article
- Registration number, if available
- Tonnage range

REACH requirement:

As per article 33(1) of regulation (EC) No. 1907/2006 (REACH), recipients of product must be provided with information of safe use if any of the tested substances (SVHC) exceeded 0.1% (w/w). A product meets the requirement of article 33(1) by default when no SVHC exceeds 0.1% (w/w).

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Tests Conducted

3 RoHS Chemical Test

(A) Screening Test by XRF Spectroscopy

Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) content were measured with reference to IEC 62321-3-1 Edition 1.0 : 2013 by XRF spectroscopy and chemical confirmation test for RoHS restricted substances.

Screened Components	XRF Results		Chemical Confirmation Result
1	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
2	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
3	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	Detected	
	Br	ND	
4	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

\*\*\*\*\*





**Test Report**

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
5	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
6	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
7	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
8	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
9	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

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**Test Report**

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
10	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
11	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
12	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
13	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
14a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Detected	

\*\*\*\*\*





**Test Report**

Number: SZHH01092043S1

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
14b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
15	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
16	Cd	ND	PBBs:ND(<5mg/kg) PBDEs:ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
17	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
18	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

\*\*\*\*\*



**Test Report**

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
19	Cd	ND	PBBs:ND(<5mg/kg) PBDEs:ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
20	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
21	Cd	ND	PBBs:ND(<5mg/kg) PBDEs:ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
22	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
23	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

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**Test Report**

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
24a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
24b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
24c	Cd	ND	Cr <sup>6+</sup> :Negative(<0.10µg/cm <sup>2</sup> )
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
24d	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
24e	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	

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**Test Report**

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
25	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
26	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
27	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
28	Cd	ND	Cr <sup>6+</sup> :Negative(<0.10µg/cm <sup>2</sup> )
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
29	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	

\*\*\*\*\*



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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
30	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
31	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
32	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
33	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
34	Cd	ND	Cr <sup>6+</sup> :Negative(<0.10µg/cm <sup>2</sup> )
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	

\*\*\*\*\*



**Test Report**

Number: SZHH01092043S1

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
35	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
36	Cd	ND	Cr <sup>6+</sup> :Negative(<0.10µg/cm <sup>2</sup> )
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
37	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
38	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
39	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

\*\*\*\*\*





**Test Report**

Number: SZHH01092043S1

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
40	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
41	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
42	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
43	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

ND = Not detected

NT = Not tested

\*\*\*\*\*



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Tests Conducted

Positive = A positive test result indicated the concentration of Cr(VI) is greater than threshold of 0.13µg/cm<sup>2</sup> for boiling-water-extraction procedures by visual comparison / by UV-VIS Spectrophotometer analysis. The sample coating is considered to contain Cr(VI).

Negative = A negative test result indicated the concentration of Cr(VI) is less than threshold of 0.10µg/cm<sup>2</sup> for boiling-water-extraction procedures by UV-VIS Spectrophotometer analysis. The coating is considered a non-Cr(VI) based coating.

(B) XRF Screening Limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	P ≤ 70 < X < 130 ≤ F	P ≤ 70 < X < 130 ≤ F	P ≤ 70 < X < 150 ≤ F
Pb	P ≤ 700 < X < 1300 ≤ F	P ≤ 700 < X < 1300 ≤ F	P ≤ 500 < X < 1500 ≤ F
Hg	P ≤ 700 < X < 1300 ≤ F	P ≤ 700 < X < 1300 ≤ F	P ≤ 500 < X < 1500 ≤ F
Cr	P ≤ 700 < X	P ≤ 700 < X	P ≤ 500 < X
Br	P ≤ 300 < X	Not applicable	P ≤ 250 < X

P = Pass

X = Inconclusive result

F = Fail

mg/kg = milligram per kilogram = ppm

(C) Estimated Detection Limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not applicable	200

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**Test Report**

Number: SZHH01092043S1

Tests Conducted

**Disclaimers:**

This XRF Screening and Chemical Confirmation Test Report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF Screening and Chemical Confirmation Test Report is sufficient for its/his/her purposes.

The results shown in this XRF Screening and Chemical Confirmation Test Report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis is required to obtain quantitative data.

(D) Chemical Confirmation Test Methods:

Testing Item	Testing Method	Reporting Limit
Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg
Chromium (VI) (Cr <sup>6+</sup> ) Content	With reference to IEC 62321-7-1 Edition 1.0:2015, by boiling water extraction and determined by UV-VIS Spectrophotometer	0.10µg/cm <sup>2</sup>

(E) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr <sup>6+</sup> )	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)

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Tests Conducted

Tested Components:

- (1) Pearl light pink coating on plastic (body, cap, button of light pink style)
- (2) Pearl dark pink coating on plastic (body, cap, button of dark pink style)
- (3) Pearl fuchsia coating on plastic (body, cap, button of fuchsia style)
- (4) Pearl purple coating on plastic (body, cap, button of purple style)
- (5) Black plastic
- (6) Dull gold color metal (washer)
- (7) Gold color metal sheet (conducting plate)
- (8) Silver color metal (terminal)
- (9) White plastic
- (10) Silver color metal (brush)
- (11) Solder
- (12) Semi-transparent plastic (washer)
- (13) Light pink plastic excluding coating (body, cap, button of light pink style)
- (14) IC
  - (a) Black plastic with material
  - (b) Silver color metal (lead)
- (15) Silver color metal (spring)
- (16) Conformal coating with green solder mask & copper color metal pad & fibreboard (PCB)
- (17) Semi-transparent plastic (washer)
- (18) Dark pink plastic excluding coating (body, cap, button of dark pink style)
- (19) Black plastic with beige printing & material & silver color metal (SMD diode)
- (20) Brown ceramic with silver color metal & solder (SMD capacitor)
- (21) Black plastic with beige printing & material & silver color metal (SMD triode of all styles)
- (22) Grey-black ceramic with silver color metal & solder (SMD capacitor)
- (23) White ceramic with black material & white printing & silver color metal & solder (SMD resister of all styles)
- (24) Switch
  - (a) Black plastic (button)
  - (b) Silver color metal (lid)
  - (c) Silver color metal sheet
  - (d) Black plastic (base)
  - (e) silver color metal (lead)
- (25) Green plastic (washer)
- (26) Black magnet
- (27) Beige adhesive tape
- (28) Silver color metal (case)
- (29) Black magnet
- (30) Copper color metal (washer)

\*\*\*\*\*





**Test Report**

Number: SZHH01092043S1

Tests Conducted

Tested Components:

- (31) Dull white plastic
- (32) Silver color metal sheet
- (33) Black magnet with silver color metal & solder
- (34) Silver color metal (axle)
- (35) Semi-transparent plastic
- (36) Silver-grey metal sheet
- (37) Copper color enamelled wire
- (38) Fuchsia plastic excluding coating (body, cap, button of fuchsia style)
- (39) Purple plastic excluding coating (body, cap, button of purple style)
- (40) Light pink plastic (ring of light pink style)
- (41) Dark pink plastic (ring of dark pink style)
- (42) Fuchsia plastic (ring of fuchsia style)
- (43) Purple plastic (ring of purple style)

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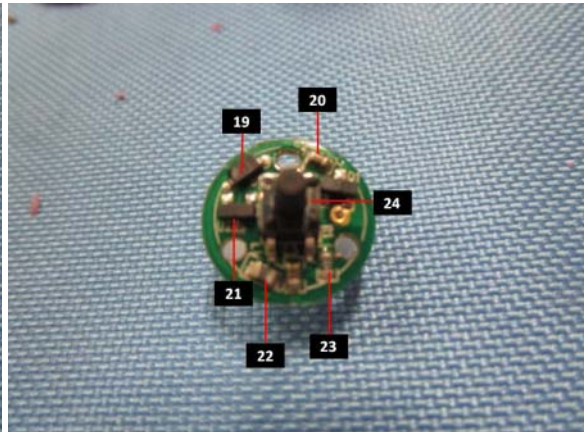
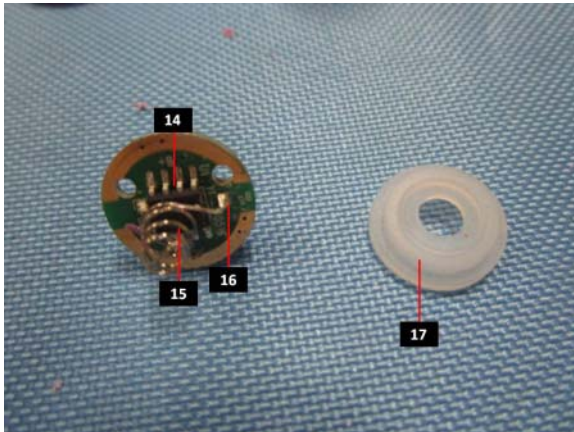
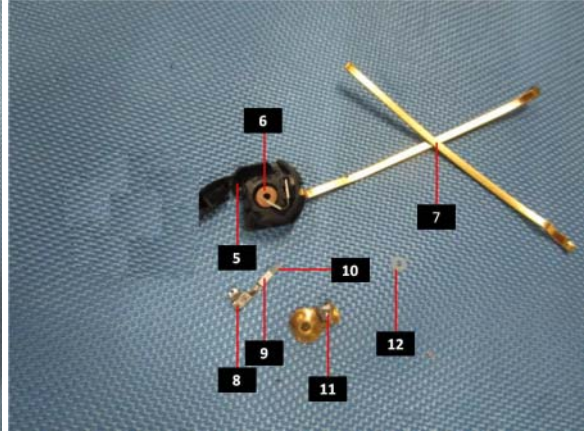
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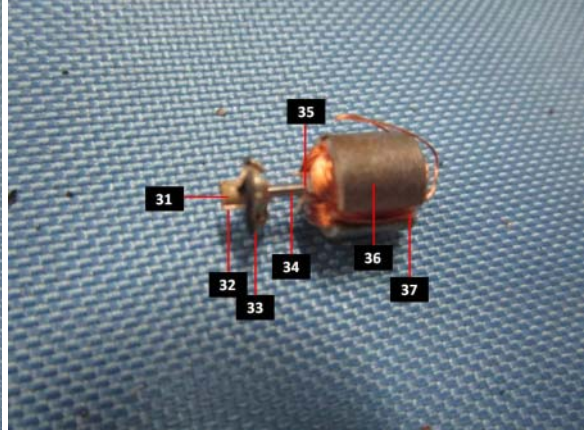
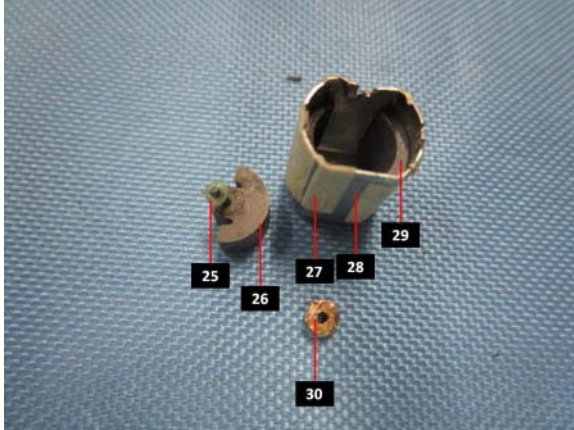
Tests Conducted



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Tests Conducted



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End of report

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To: DONGGUAN LIYANG TOYS LTD.

Attention: 陈效

Date: Jan 19, 2017

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Re : Report Revision Notification

Intertek Testing Services Report Number SZHH01092043 Dated Sep 26, 2016.

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services Report, SZHH01092043S1.

Thank you for your attention.

Authorized by:  
For Intertek Testing Services  
Shenzhen Ltd.

Ben N.L. Lin  
General Manager

**Intertek Testing Services Shenzhen Ltd.- Hardlines**

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