

Applicant:

Number: SZHH01433812

Date: Jan 21, 2020

SHEN ZHEN MENCONN ELECTRONIC CO., LTD NO.13A JINYUAN ONE ROAD JINYUAN INDUSTRIAL ZONE HE'AO LONGGANG DISTRICT SHENZHEN CITY

Attn: CHEN ZHAO NONG

Sample Description:

One (1) submitted sample said to be White Plastic [Housing (胶料)] Item No.

A1001H(W) 1002H(W) 1003H(W) 1004H(W) 1005H(W) 1006H(W) 1007H(W) 1008H(W) 1009H(W) 1011H(W) 1012H(W) 1013H(W) 1014H(W) 1250H(W) 1251H(W) 1252H(W) 1253H(W) 1254H(W) 1255H(W) 1256H(W) 1257H(W) 1258H(W) 1259H(W) 1500H(W) 1501H(W) 1502H(W) 1503H(W) 2001H(W) 2002H(W) 2003H(W) 2004H(W) 2005H(W) 2006H(W) 2007H(W) 2008H(W) 2009H(W) 2011H(W) 2012H(W) 2013H(W) 2014H(W) 2015H(W) 2016H(W) 2100H(W) 2500H(W) 2501H(W) 2502H(W) 2503H(W) 2504H(W) 2505H(W) 2506H(W) 2507H(W) 2508H(W) 2509H(W) 2510H(W) 2512H(W) 2513H(W) 2514H(W) 2515H(W) 2516H(W) 2517H(W) 2541H(W) 2542H(W) 2543H(W) 2544H(W) 2545H(W) 2546H(W) 2547H(W) 2548H(W) 2549H(W) 3500H(W) 3800H(W) 3960H(W) 3961H(W) 3962H(W) 3963H(W) 4000H(W) 5001H(W) 4255H(W) 5058H(W) 5082H(W) 7500H(W) 2361H(W) 1561H(W) 7921H(W) 5000H(W) 0800H(W) 7501H(W)

B1259H 1502H 2011H 2012H 2512H 2513H 3951H 3965H 3961H 3962H 3963H 0600H 0800H 3952H

C1250H 1500H 1301H 1801H 2003H(W) 2363H 2503H 2504H 2505H 2521H 2544H 1251H 1302H 2012H 2020H 3030H 3961H 3962H 4014H 4255H 1058H 5030H 5058H 6201H 6350H 6500H 6301H 6302H 4140H 5081H 6502H 6501H

F0500 0501 0502 0503 0504 0505 0506 0507 0508 0509 F1000 1001 1002 1003 1004 1005 1010 1015 1016 1017 1018 1251 1255 1257 1258 2544

CE-1 CE-1X CE-2X Blue White Gray Yellow Purple Green Black Brown Red Orange Jan 15, 2020.



Date Sample Received Testing Period

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Tests conducted:

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

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COLIC	iusion.

nclusion: <u>Tested Sample</u> Tested component of submitted sample	Standard EN 71-3:2013+A3:2018 on migration of certain elements	<u>Result</u> Pass
	EN 71-3:2013+A3:2018 on migration of certain elements and (EU) 2018/725 amending 2009/48/EC (applies from 18 November 2019) for Chromium (VI) migration and (EU) 2019/1922 amending 2009/48/EC (applies from 20 May 2021) for Aluminium migration	Pass
	EN 71-3:2019 on migration of certain elements	Pass
	EN 71-3:2019 on migration of certain elements and (EU) 2019/1922 amending 2009/48/EC (applies from 20 May 2021) for Aluminium migration	Pass
	EU REACH Regulation (EC) No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH requirement in report for details)	Meet Requirement
	Mattel QSOP No. 3610 Rev. 6.00 on Phthalate content	Pass
	Restriction of the use of certain hazardous substance in electrical and electronic equipment (RoHS Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863 with effective from 22 July 2019)	Pass

Authorized by: For Intertek Testing Services Shenzhen Ltd.

Rachel L. Guo General Manager

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Tests Conducted

Number: SZHH01433812

1 <u>19 Toxic Element Migration Test</u>

(A) Test Result

As per EN 71-3:2013+A3:2018 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry, Ion Chromatography with UV-VIS and Gas Chromatographic - Mass Spectrometry.

Category (III): Scraped-off toy material

Element	<u>Result (mg/kg)</u> Tested Component (1)	Reporting Limit (mg/kg)	<u>Limit</u> (mg/kg)
Aluminium (Al)	ND	300	70000 / 28130▲
Antimony (Sb)	ND	10	560
Arsenic (As)	ND	10	47
Barium (Ba)	ND	10	18750
Boron (B)	ND	50	15000
Cadmium (Cd)	ND	5	17
Chromium (III) (Cr III) **	ND	10	460
Chromium (VI) (Cr VI) **	ND#	0.025	0.2/0.053©
Cobalt (Co)	ND	10	130
Copper (Cu)	ND	10	7700
Lead (Pb)	ND	10	23
Manganese (Mn)	ND	10	15000
Mercury (Hg)	ND	10	94
Nickel (Ni)	ND	10	930
Selenium (Se)	ND	10	460
Strontium (Sr)	ND	100	56000
Tin (Sn)	ND	2.5	180000
Organić tin **	ND	2.0	12
Zinc (Zn)	ND	100	46000

Remark : mg/kg = milligram per kilogram

++ = Unless the test results were marked with "#" or " Δ ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

- Organic tin test result was expressed as tributyl tin.

ND = Not detected (less than reporting limit)

▲ = The new Aluminium migration limit were quoted from Directive (EU) 2019/1922 amending Directive 2009/48/EC applicable from 20 May 2021.

 \odot = The new Chromium (VI) migration limit [(0.053mg/kg for Category (III)] were quoted from Directive (EU) 2018/725 amending Directive 2009/48/EC applicable from 18 November 2019.



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Tests Conducted

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= Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

 Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin and Dimethyl tin after converted to Tributyl tin by calculation. Other Organic tin compounds may be also be present in sample as stated in EN 71-3:2013+A3:2018.

Tested component(s): (1) White plastic granule.

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

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Tests Conducted

Number: SZHH01433812

2 19 Toxic Element Migration Test

(A) Test Result

As per EN 71-3:2019 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry, Ion Chromatography with UV-VIS and Gas Chromatographic - Mass Spectrometry.

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= Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium migration value of Chromium(VI).

 $\Delta =$ Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation. Other Organic tin compounds may be also be present in sample as stated in EN 71-3:2019.

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Tested component(s): (1) White plastic granule.

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

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Tests Conducted

Number: SZHH01433812

3 (I) SVHC Testing Results

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

Chemical Substance	Results % (w/w)
	Tested components
Tested SVHCs in Chemical list	ND

SVHC = Substance of very high concern

ND = Not detected (less than reporting limit)

Reporting limit = 0.1%

Test components: White plastic granule.

Tested SVHC Chemicals list:

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
1	Cobalt Dichloride Δ	7646-79-9	2	Diarsenic Pentaoxide Δ	1303-28-2
3	Diarsenic Trioxide Δ	1327-53-3	4	Lead Hydrogen Arsenate Δ	7784-40-9
5	Triethyl Arsenate Δ	15606-95-8	6	Sodium Dichromate Δ	7789-12-0, 10588-01- 9
7	Bis (Tributyltin) Oxide (TBTO) Δ	56-35-9	8	Anthracene	120-12-7
9	4,4'- Diaminodiphenylme thane (MDA)	101-77-9	10	Hexabromocyclododeca ne (HBCDD) and All Major Diastereoisomers Identified (α-HBCDD, β- HBCDD, γ-HBCDD)	25637-99-4 and 3194-55-6 (134237- 50-6,134237-51-7, 134237-52-8)
11	5-Tert-Butyl-2,4,6- Trinitro-m-Xylene (Musk Xylene)	81-15-2	12	Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7
13	Dibutyl Phthalate (DBP)	84-74-2	14	Benzyl Butyl Phthalate (BBP)	85-68-7

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	Chemical Substance	CAS No.		Chemical Substance	CAS No.
15	Short Chain Chlorinated Paraffins (C ₁₀₋₁₃)	85535-84-8	16	Lead Chromate A	7758-97-6
17	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) Δ	12656-85-8	18	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ	1344-37-2
19	Tris (2-Chloroethyl) Phosphate	115-96-8	20	2,4-Dinitrotoluene	121-14-2
21	Diisobutyl Phthalate (DIBP)	84-69-5	22	Coal Tar Pitch, High Temperature	65996-93-2
23	Anthracene Oil	90640-80-5	24	Anthracene Oil, Anthracene Paste, Distn. Lights	91995-17-4
25	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2	26	Anthracene Oil, Anthracene-low	90640-82-7
27	Anthracene Oil, Anthracene Paste	90640-81-6	28	Acrylamide	79-06-1
29	Boric Acid Δ	10043-35-3, 11113-50-1	30	Disodium Tetraborate, Anhydrous Δ	1330-43-4, 12179- 04-3, 1303-96-4
31	Tetraboron Disodium Heptaoxide, Hydrate Δ	12267-73-1	32	Sodium Chromate Δ	7775-11-3
33	Potassium Chromate Δ	7789-00-6	34	Ammonium Dichromate Δ	7789-09-5
35	Potassium Dichromate Δ	7778-50-9	36	Trichloroethylene	79-01-6
37	2-Methoxyethanol	109-86-4	38	2-Ethoxyethanol	110-80-5
39	Cobalt Sulphate Δ	10124-43-3	40	Cobalt Dinitrate Δ	10141-05-6
41	Cobalt Carbonate Δ	513-79-1	42	Cobalt Diacetate Δ	71-48-7
43	Chromium Trioxide Δ	1333-82-0	44	$\begin{array}{c} \mbox{Chromic Acid } \Delta \\ \mbox{Dichromic Acid } \Delta \\ \mbox{Oligomers of Chromic} \\ \mbox{Acid and Dichromic Acid} \\ \Delta \end{array}$	7738-94-5 13530-68-2
45	Strontium Chromate∆	7789-06-2	46	2-ethoxyethyl acetate (2-EEA)	111-15-9

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	Chemical Substance	CAS No.		Chemical Substance	CAS No.
47	1,2- Benzenedicarboxyli c acid, di-C ₇₋₁₁ - branched and linear alkyl esters (DHNUP)	68515-42-4	48	Hydrazine	7803-57-8 302-01-2
49	1-methyl-2- pyrrolidone	872-50-4	50	1,2,3-trichloropropane	96-18-4
51	1,2- Benzenedicarboxyli c acid, di-C ₆₋₈ - branched alkyl esters, C ₇ -rich (DIHP)	71888-89-6	52	Lead dipicrate∆	6477-64-1
53	Lead styphnate∆	15245-44-0	54	Lead azide; Lead diazide∆	13424-46-9
55	Phenolphthalein	77-09-8	56	2,2'-dichloro-4,4'- methylenedianiline (MOCA)	101-14-4
57	N,N- dimethylacetamide (DMAC)	127-19-5	58	Trilead diarsenate∆	3687-31-8
59	Calcium arsenate∆	7778-44-1	60	Arsenic acid Δ	7778-39-4
61	Bis(2- methoxyethyl) ether	111-96-6	62	1,2-Dichloroethane	107-06-2
63	4-(1,1,3,3- tetramethylbutyl)ph enol, (4-tert- Octylphenol)	140-66-9	64	2-Methoxyaniline; o- Anisidine	90-04-0
65	Bis(2- methoxyethyl) phthalate (DMEP)	117-82-8	66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4
67	Pentazinc chromate octahydroxide∆	49663-84-5	68	Potassium hydroxyoctaoxodizincat e di-chromate∆	11103-86-9
69	Dichromium tris(chromate) Δ	24613-89-6	70	Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017- 00-8)
71	Zirconia Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650- 017-00-8)	72	1,2-bis(2- methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2

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			[
	Chemical Substance	CAS No.		Chemical Substance	CAS No.
73	1,2- dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	74	Diboron trioxide∆	1303-86-2
75	Formamide	75-12-7	76	Lead(II) bis(methanesulfonate) Δ	17570-76-2
77	TGIC (1,3,5- tris(oxiranylmethyl)- 1,3,5-triazine- 2,4,6(1H,3H,5H)- trione)	2451-62-9	78	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
79	4,4'- bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	80	N,N,N',N'-tetramethyl- 4,4'-methylenedianiline (Michler's base)	101-61-1
81	[4-[4,4'- bis(dimethylamino) benzhydrylidene]cy clohexa-2,5-dien-1- ylidene]dimethylam monium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] +	548-62-9	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
83	α,α-Bis[4- (dimethylamino)phe nyl]-4 (phenylamino)naph thalene-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	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

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	Chemical Substance	CAS No.		Chemical Substance	CAS No.
85	Bis(pentabromophe nyl) ether (decabromodiphen yl ether; DecaBDE)	1163-19-5	86	Pentacosafluorotridecan oic acid	72629-94-8
87	Tricosafluorododec anoic acid	307-55-1	88	Henicosafluoroundecan oic acid	2058-94-8
89	Heptacosafluorotetr adecanoic acid	376-06-7	90	Diazene-1,2- dicarboxamide (C,C'- azodi(formamide))	123-77-3
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	92	Hexahydromethylphthali c 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

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Tests Conducted

Number: SZHH01433812

			1		
	Chemical Substance	CAS No.		Chemical Substance	CAS No.
	4-Nonylphenol, branched and linear [substances with a linear and/or				
93	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]	-	94	4-(1,1,3,3- tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	
95	Methoxyacetic acid	625-45-6	96	N,N-dimethylformamide	68-12-2
97	Dibutyltin dichloride (DBTC) Δ	683-18-1	98	Lead monoxide (Lead oxide) Δ	1317-36-8
99	Orange lead (Lead tetroxide) Δ	1314-41-6	100	Lead bis(tetrafluoroborate) Δ	13814-96-5
101	Trilead bis(carbonate)dihyd roxide Δ	1319-46-6	102	Lead titanium trioxide Δ	12060-00-3
103	Lead titanium zirconium oxide∆	12626-81-2	104	Silicic acid, lead salt Δ	11120-22-2
105	Silicic acid (H2Si2O5), 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	106	1-bromopropane (n- propyl bromide)	106-94-5

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Tests Conducted

Number: SZHH01433812

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
107	Methyloxirane (Propylene oxide)	75-56-9	108	1,2- Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
109	Diisopentylphthalat e (DIPP)	605-50-5	110	N-pentyl- isopentylphthalate	776297-69-9
111	1,2-diethoxyethane	629-14-1	112	Acetic acid, lead salt, basic Δ	51404-69-4
113	Lead oxide sulfate Δ	12036-76-9	114	[Phthalato(2-)]dioxotrilead∆	69011-06-9
115	Dioxobis(stearato)tr ilead Δ	12578-12-0	116	Fatty acids, C16-18, lead salts∆	91031-62-8
117	Lead cynamidate∆	20837-86-9	118	Lead dinitrate Δ	10099-74-8
119	Pentalead tetraoxide sulphate∆	12065-90-6	120	Pyrochlore, antimony lead yellow Δ	8012-00-8
121	Sulfurous acid, lead salt, dibasic Δ	62229-08-7	122	Tetraethyllead∆	78-00-2
123	Tetralead trioxide sulphate∆	12202-17-4	124	Trilead dioxide phosphonate∆	12141-20-7
125	Furan	110-00-9	126	Diethyl sulphate	64-67-5
127	Dimethyl sulphate	77-78-1	128	3-ethyl-2-methyl-2-(3- methylbutyl)-1,3- oxazolidine	143860-04-2
129	Dinoseb (6-sec- butyl-2,4- dinitrophenol)	88-85-7	130	4,4'-methylenedi-o- toluidine	838-88-0
131	4,4'-oxydianiline and its salts	101-80-4	132	4-aminoazobenzene	60-09-3
133	4-methyl-m- phenylenediamine (toluene-2,4- diamine)	95-80-7	134	6-methoxy-m-toluidine (p-cresidine)	120-71-8
135	Biphenyl-4-ylamine	92-67-1	136	o-aminoazotoluene [(4- o-tolylazo-o-toluidine])	97-56-3
137	o-toluidine	95-53-4	138	N-methylacetamide	79-16-3
139	Cadmium∆	7440-43-9	140	Cadmium oxide Δ	1306-19-0

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Tests Conducted

Number: SZHH01433812

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
141	Dipentyl phthalate (DPP)	131-18-0	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]	
143	Ammonium pentadecafluorooct anoate (APFO)	3825-26-1	144	Pentadecafluorooctanoi c acid (PFOA)	335-67-1
145	Cadmium sulphide∆	1306-23-6	146	Disodium 3,3'-[[1,1'- biphenyl]-4,4'- diylbis(azo)]bis(4- aminonaphthalene-1- sulphonate) (C.I. Direct Red 28)	573-58-0
147	Disodium 4-amino- 3-[[4'-[(2,4- diaminophenyl)azo] [1,1'-biphenyl]-4- yl]azo] -5-hydroxy- 6- (phenylazo)naphth alene-2,7- disulphonate (C.I. Direct Black 38)	1937-37-7	148	Dihexyl phthalate (DnHP)	84-75-3
149	Imidazolidine-2- thione (2- imidazoline-2-thiol)	96-45-7	150	Lead di(acetate) Δ	301-04-2

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Tests Conducted

Number: SZHH01433812

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
151	Trixylyl phosphate	25155-23-1	152	1,2- Benzenedicarboxylic acid, dihexyl ester, branched and linear (Diisohexyl phthalate(DIHP))	68515-50-4
153	Cadmium chloride Δ	10108-64-2	154	Sodium perborate; perboric acid, sodium salt Δ	
155	Sodium peroxometaborate∆	7632-04-4	156	2-(2H-benzotriazol-2-yl)- 4,6-ditertpentylphenol (UV-328)	25973-55-1
157	2-benzotriazol-2-yl- 4,6-di-tert- butylphenol (UV- 320)	3846-71-7	158	2-ethylhexyl 10-ethyl- 4,4-dioctyl-7-oxo-8-oxa- 3,5-dithia-4- stannatetradecanoate (DOTE)	15571-58-1
159	Cadmium fluoride∆	7790-79-6	160	Cadmium sulphate∆	10124-36-4; 31119- 53-6
161	Reaction mass of 2-ethylhexyl 10- ethyl-4,4-dioctyl-7- oxo-8-oxa-3,5- dithia-4- stannatetradecano ate and 2- ethylhexyl 10-ethyl- 4-[[2-[(2- ethylhexyl)oxy]-2- oxoethyl]thio]-4- octyl-7-oxo-8-oxa- 3,5-dithia-4- stannatetradecano ate (reaction mass of DOTE and MOTE)	15571-58-1; 27107-89-7	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

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Tests Conducted

Number: SZHH01433812

	Chemical	0.0.0.1			040.11
	Substance	CAS No.		Chemical Substance	CAS No.
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	164	Nitrobenzene	98-95-3
165	2,4-di-tert-butyl-6- (5- chlorobenzotriazol- 2-yl)phenol (UV- 327)	3864-99-1	166	2-(2H-benzotriazol-2-yl)- 4-(tert-butyl)-6-(sec- butyl)phenol (UV-350)	36437-37-3
167	1,3-propanesultone	1120-71-4	168	Perfluorononan-1-oic- acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4
169	Benzo[def]chrysen e (Benzo[a]pyrene)	50-32-8	170	4,4'- isopropylidenediphenol (bisphenol A; BPA)	80-05-7
171	Nonadecafluorodec anoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	172	4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	

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Tests Conducted

Number: SZHH01433812

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
173	p-(1,1 dimethylpropyl)phe nol	80-46-6	174	Perfluorohexane-1- sulphonic acid and its salts (PFHxS)	355-46-4
175	1,6,7,8,9,14,15,16, 17,17,18,18- Dodecachloropenta cyclo[12.2.1.16,9.0 2,13.05,10]octadec a-7,15-diene ("Dechlorane Plus"TM) [covering any of its individual anti- and syn- isomers or any combination thereof]	13560-89-9; 135821-74-8; 135821-03-3	176	Benz[a]anthracene	56-55-3
177	Cadmium nitrate∆	10325-94-7	178	Cadmium carbonate Δ	513-78-0
179	Cadmium hydroxide∆	21041-95-2	180	Chrysene	218-01-9
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]		182	Benzene-1,2,4- tricarboxylic acid 1,2 anhydride (trimellitic anhydride, TMA)	552-30-7
183	Dicyclohexyl phthalate (DCHP)	84-61-7	184	Octamethylcyclotetrasilo xane (D4)	556-67-2
185	Decamethylcyclope ntasiloxane (D5)	541-02-6	186	Dodecamethylcyclohexa siloxane (D6)	540-97-6
187	Lead	7439-92-1	188	Disodium octaborate∆	12008-41-2
189	Benzo[ghi]perylene	191-24-2	190	Terphenyl hydrogenate	61788-32-7
191	Ethylenediamine (EDA)	107-15-3	192	1,7,7-trimethyl-3- (phenylmethylene)bicycl o[2.2.1]heptan-2-one	15087-24-8

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Tests Conducted

Number: SZHH01433812

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
193	2,2-bis(4'- hydroxyphenyl)-4- methylpentane	6807-17-6	194	Benzo[k]fluoranthene	207-08-9
195	Fluoranthene	206-44-0	196	Phenanthrene	85-01-8
197	Pyrene	129-00-0	198	2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)pro pionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	
199	4-tert-butylphenol (PTBP)	98-54-4	200	2-methoxyethyl acetate	110-49-6
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4- nonylphenol, branched and linear (4-NP) +				

Tested proposed SVHC Chemicals list in the Public Consultations on 3 September 2019:

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
1	2-benzyl-2- dimethylamino-4'- morpholinobutyrop henone	119313-12-1	2	2-methyl-1-(4- methylthiophenyl)-2- morpholinopropan-1- one	71868-10-5
3	Diisohexyl phthalate	71850-09-4	4	Perfluorobutane sulfonic acid (PFBS) and its salts	

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

+ = The content was calculated based on assumption of worst-case.



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Tests Conducted

Number: SZHH01433812

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).

As per Court of the European Union Judgment in Case C-106/14, press release No 100/15 dated 10 September 2015, each of the articles incorporated as a component of a complex product is covered by the relevant duties to notify and provide information when they contain a substance of very high concern in a concentration above 0.1% of their mass.

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Tests Conducted

Number: SZHH01433812

4 Phthalate Content

As per Mattel Quality and Safety Operating Procedure No. 3610 Rev. 6.00 and with reference to CPSC-CH-C1001-09.2, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

For accessible materials

<u>Test item</u>	CAS No.	Result (%) Tested component	Reporting limit (%)	<u>Limit</u> (%)
Dibutyl phthalate (DBP)	84-74-2	<u>(1)</u> ND	0.01	
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.01	
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.01	
Di-(iso-nonyl) phthalate (DINP)	28553-12-0/ 68515-48-0	ND	0.01	
Di-(n-octyl) phthalate (DNOP)	117-84-0	ND	0.01	
Di-iso-decyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	0.01	
Di-iso-butyl phthalate (DIBP)	84-69-5	ND	0.01	
Sum of DBP, DEHP, BBP, DIBP		ND		0.1
Sum of DBP, DEHP, BBP, DINP, DIDP, DNOP		ND		0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	0.01	0.1
Di-n-pentyl phthalate (DPP/DPENP)	131-18-0	ND	0.01	0.1
Dicyclohexyl phthalates (DCHP)	84-61-7	ND	0.01	0.1

ND = Not detected (less than reporting limit)

Tested Component(s): (1) White plastic granule.

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Tests Conducted

5 RoHS Chemical Test

(A) Test Result Summary:

Test Item	<u>Result</u>
rest item	<u>(1)</u>
Cadmium (Cd) Content (mg/kg)	ND
Lead (Pb) Content (mg/kg)	ND
Mercury (Hg) Content (mg/kg)	ND
Chromium (VI)(Cr ⁶⁺) Content (mg/kg)	ND
Polybrominated Biphenyls (PBBs)(mg/kg)	
Monobromobiphenyl (MonoBB)	ND
Dibromobiphenyl (DiBB)	ND
Tribromobiphenyl (TriBB)	ND
Tetrabromobiphenyl (TetraBB)	ND
Pentabromobiphenyl (PentaBB)	ND
Hexabromobiphenyl (HexaBB)	ND
Heptabromobiphenyl (HeptaBB)	ND
Octabromobiphenyl (OctaBB)	ND
Nonabromobiphenyl (NonaBB)	ND
Decabromobiphenyl (DecaBB)	ND
Polybrominated Diphenyl Ethers (PBDEs)(mg/kg)	
Monobromodiphenyl Ether (MonoBDE)	ND
Dibromodiphenyl Ether (DiBDE)	ND
Tribromodiphenyl Ether (TriBDE)	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND
Pentabromodiphenyl Ether (PentaBDE)	ND
Hexabromodiphenyl Ether (HexaBDE)	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND
Octabromodiphenyl Ether (OctaBDE)	ND
Nonabromodiphenyl Ether (NonaBDE)	ND
Decabromodiphenyl Ether (DecaBDE)	ND

Non-toys:

Test Item	Result
	<u>(1)</u>
Dibutyl phthalate (DBP) (mg/kg)	ND
Di-(2-ethyl hexyl) phthalate (DEHP) (mg/kg)	ND
Benzyl butyl phthalate (BBP) (mg/kg)	ND
Di-(iso-butyl) phthalate (DIBP) (mg/kg)	ND

ND = Not detected

Tested components: (1) White plastic granule.

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Number: SZHH01433812



Number: SZHH01433812

Tests Conducted

(B) 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 ⁶⁺)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Dibutyl phthalate (DBP)	0.1% (1000 mg/kg)
Di-(2-ethyl hexyl) phthalate (DEHP)	0.1% (1000 mg/kg)
Benzyl butyl phthalate (BBP)	0.1% (1000 mg/kg)
Di-(iso-butyl) phthalate (DIBP)	0.1% (1000 mg/kg)

The above limits were quoted from Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863 for homogeneous material.

(C) Test Method:

Testing Item	Testing Method	Reporting Limit
Mercury (Hg) Content	With reference to IEC 62321-4 Edition 1.0:2013+AMD1: 2017, by acid digestion and determined by ICP - OES	2 mg/kg
Cadmium (Cd) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion and determined by ICP - OES	2 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion and determined by ICP - OES	2 mg/kg
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 ⁶⁺) Content	With reference to IEC 62321-7-2 Edition 1.0:2017, Hexavalent chromium – Determination of hexavalent chromium (Cr(VI) in polymers and electronics by the colorimetric method	10 mg/kg
Dibutyl phthalate (DBP) & Di-(2-ethyl hexyl) phthalate (DEHP) & Benzyl butyl phthalate (BBP) & Di-(iso-butyl) phthalate (DIBP)	With reference to IEC 62321-8 Edition 1.0:2017, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis	100 mg/kg

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End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band w = U) except designation from the customer, regulation or test specification.

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