

Date: JAN. 21, 2020

Page 1 of 23

CHUZHOU BETTYMA BABY CARRIER CO., LTD. SHITAN MODERN INDUSTRIAL PARK, QUANJIAO, CHUZHOU, ANHUI, CHINA

THE TEST REPORT IS TO SUPERSEDE THE TEST REPORT No.: SHHL1912504691TY, DATE: JAN. 06, 2020, ORIGINAL REPORT SHALL BE INVALID.

		BATTERY-POWERED RIDE-ON CHILDREN'S
Sample Description	:	CARS/RIDE ON VEHICLE
Sample Quantity	:	6 PCS
Style / Item No.	:	BDM-0923
Labeled Age Grading	:	37-96 MONTHS
Requested Age Grading	:	37-96 MONTHS
Age Group Assessed as Per Age Guideline	:	37-96 MONTHS
Age Group Applied in Testing	:	37-96 MONTHS
Sample Receiving Date	:	DEC. 13, 2019
Further Information Date	:	JAN. 21, 2020
Testing Period	:	DEC. 13, 2019 TO JAN. 21, 2020

Test Requested Result EN 71-1: 2014+A1: 2018 - Safety of toys - Part 1: Mechanical and Physical Properties Pass Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer See Result mark (name, address), product identification) according to Informative Annex A.26 and A.33 of the European standard on Safety of toys EN 71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys EN 71-2: 2011+A1: 2014 - Safety of toys - Part 2: Flammability Pass EN71-3: 2019 as harmonized standard under Directive 2009/48/EC and its Pass amendment (EU) 2019/1728 - Migration of certain elements (Category III:for scrapped-off toy material) Pass

Entry 51 & 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC)-Phthalates content

************ FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) ************





Date: JAN. 21, 2020

Page 2 of 23

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Wallace Lui Senior Technical Manager, Asia



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Test Report No.:

No.: SHHL1912504691TY-01 Da

Date: JAN. 21, 2020

Page 3 of 23

Result:

EN 71-1: 2014+A1:2018 - SAFETY OF TOYS - PART 1: MECHANICAL AND PHYSICAL PROPERTIES

AS SPECIFIED IN EN 71-1: 2014+A1:2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

<u>Clause</u>	Descripti	ion	<u>Result</u>
4	General	requirements	
4.1	Material	cleanliness	Pass
4.2	Assembl	у	Pass
4.3	Flexible	plastics sheeting	<u>N/A</u>
4.4	Toy bage	3	<u>N/A</u>
4.5	Glass		<u>N/A</u>
4.6	Expandir	ng materials	<u>N/A</u>
4.7	Edges		Pass
4.8	Points ar	nd metallic wires	Pass
4.9	Protrudir	ng parts	<u>N/A</u>
4.10	Parts mo	oving against each other:	
	4.10.1	Folding and sliding mechanisms	<u>N/A</u>
	4.10.2	Driving mechanisms	<u>Pass</u>
	4.10.3	Hinges	Pass
	4.10.4	Springs	<u>N/A</u>
4.11	Mouth-a	ctuated toys and other toys intended to be put in the mouth	<u>N/A</u>
4.12	Balloons		<u>N/A</u>
4.13	Cords of	toy kites and other flying toys	<u>N/A</u>
4.14	Enclosur	res:	
	4.14.1	Toys which a child can enter	<u>N/A</u>
	4.14.2	Masks and helmets	<u>N/A</u>
4.15	Toys inte	ended to bear the mass of a child:	
	4.15.1	Toys propelled by the child or by other means	<u>Pass</u>
	4.15.2	Toy bicycles	<u>N/A</u>
	4.15.3	Rocking horses and similar toys	<u>N/A</u>
	4.15.4	Toys not propelled by a child	<u>N/A</u>
	4.15.5	Toys scooters	<u>N/A</u>
4.16	Heavy in	nmobile toys	<u>N/A</u>
4.17	Projectile	es	<u>N/A</u>
4.18	Aquatic t	toys and inflatable toys	<u>N/A</u>





Test	Report	No.: SHHL1912504691TY-01 Date: JAN. 21, 2020	Page 4 of 23
4.19	Percussi percussi	on caps specifically designed for use in toys and toys using on caps	<u>N/A</u>
4.20	Acoustic	S	<u>Pass</u>
4.21	Toys cor	ntaining a non-electrical heat source	<u>N/A</u>
4.22	Small ba	lls	<u>N/A</u>
4.23	Magnets		<u>N/A</u>
4.24	Yoyo bal	ls	<u>N/A</u>
4.25	Toys atta	ached to food	<u>N/A</u>
4.26	Toy disg	uise costumes	<u>N/A</u>
4.27	Flying to	ys	<u>N/A</u>
5	Toys inte	ended for children under 36 months	
5.1	General	requirements:	
	5.1a	Small part requirement on toys & removable components (Test method 8.2)	<u>N/A</u>
	5.1b	Torque test (Test method 8.3)	<u>N/A</u>
		Tension test (Test method 8.4)	N/A
		Drop test (Test method 8.5)	N/A
		Tip over test (Test method 8.6)	<u>N/A</u>
		Impact test (Test method 8.7)	<u>N/A</u>
		Compression test (Test method 8.8)	<u>N/A</u>
		Sharp edge (Test method 8.11)	<u>N/A</u>
		Sharp point (Test method 8.12)	<u>N/A</u>
		Tension test for magnets (Test method 8.34)	<u>N/A</u>
	5.1c	Potential hazardous metal points and wires with a cross section of 2mm or less	<u>N/A</u>
	5.1d	Large and bulky toys	<u>N/A</u>
	5.1e	Glued wooden toys and toys with glued on plastic decals	<u>N/A</u>
	5.1f	The casing of toys intended for children too young to sit up unaided	<u>N/A</u>
	5.1g	Foam toys and toys containing accessible foam components	<u>N/A</u>
5.2	Soft-filled	d toys and soft-filled parts of a toy	<u>N/A</u>
5.3	Plastic sl	heeting	<u>N/A</u>
5.4	Cords, cl	hains and electrical cable in toys	<u>N/A</u>
5.5	Liquid fill	ed toys	<u>N/A</u>
5.6	Speed lir	mitation of electrically driven toys	<u>N/A</u>
5.7	Glass an	d porcelain	<u>N/A</u>
5.8	Shape a	nd size of certain toys	<u>N/A</u>
5.9	Toys cor	nprising monofilament fibres	<u>N/A</u>
5.10	Small ba	lls	<u>N/A</u>
5.11	Play figu	res	<u>N/A</u>





Test	Report	No.: SHHL1912504691TY-01	Date: JAN. 21, 2020	Page 5 of 23
5.12	Hemisph	eric shaped toys		N/A
5.13	Suction of			N/A
5.14	Straps in	tended to be used fully or partially ar	ound the neck	N/A
5.15		with cords for pulling		N/A
6	Packagir	ng		Pass
7	Warning	s, markings and instructions for use		
7.1	General	Requirements		<u>Pass</u>
	CEN has addressi	ease note that for assessing the visib introduced good practice in the info ng the following aspects:		
	<i>,</i> .	hasising the warning		
	,	rast, background and colours		
	,	ecting surfaces and obscuring materi	al	
	d) Font			
	e) Font			
	, -	cal direction of text		
		e details, see EN 71-1.		_
7.2	(Remark	intended for children under 36 mont : The toy contains small part. It is act is found on packaging.)		<u>Pass</u> <u>See Remark</u>
7.3	Latex Ba	lloon		<u>N/A</u>
7.4	Aquatic t	oys		<u>N/A</u>
7.5	Function	al Toys		<u>N/A</u>
7.6	Hazardo	us sharp functional edges and points	i	<u>N/A</u>
7.7	Projectile	9S		<u>N/A</u>
7.8	Imitation	protective masks and helmets		<u>N/A</u>
7.9	Toy kites			<u>N/A</u>
7.10	toys	ates, inline skates and toy skateboar		Pass
7.11	•	ended to be attaché to or strung acro	ss a cradle, cot, or perambulator	<u>N/A</u>
7.12	•	ed teethers		<u>N/A</u>
7.13		on caps specifically designed for use	e in toys	<u>N/A</u>
7.14	Acoustic			<u>N/A</u>
7.15	Toys bic	-		<u>N/A</u>
7.16		ended to bear the mass of a child		<u>N/A</u>
7.17		nprising monofilament fibres		<u>N/A</u>
7.18	Toy scoo			<u>N/A</u>
7.19	-	horses and similar toys		<u>N/A</u>
7.20	-	c/electrical experimental sets		<u>N/A</u>
7.21	Toys witl	n electrical cables exceeding 300 mn	n in length	<u>N/A</u>





Test R	eport No.: SHHL1912504691TY-01 Date	e: JAN. 21, 2020	Page 6 of 23
7.22	Toys with cords or chains intended for children of 18 under 36 months	nonths and over but	<u>N/A</u>
7.23	Toys intended to be attached to a cradle, cot or peran	nbulator	N/A
7.24	Sledges with cords for pulling		N/A
7.25	Flying toys		N/A
7.26	Improvised projectiles		N/A

Only English warnings were checked for the clause 7. According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.

N/A = Not Applicable

LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO INFORMATIVE ANNEX A.26 AND A.33 OF THE EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-1:2014+A1:2018 AND THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Not applicable	/
CE Mark	Present	Toy/Packaging
Importer's Name & Address	Absent. (See note 3)	/
Manufacturer's Name & Address	Present	Toy/Packaging
Product ID	Present	Toy/Packaging

Note:

- According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. According to the GUIDANCE DOCUMENT ON THE APPLICATION OF DIRECTIVE 2009/48/EC ON THE SAFETY OF TOYS, manufacturer shall not label "surface washing" on textile toys which, under the TSD, need to be soak washable.
- 2. CE marking should be visible from outside the packaging and its height must be at least 5mm.
- 3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
- 4. Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

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Test Report No.: SHHL1912504691TY-01 Date: JAN. 21, 2020

Page 7 of 23

EN 71-2: 2011+A1: 2014 - SAFETY OF TOYS - PART 2: FLAMMABILITY

AS SPECIFIED IN EN 71-2:2011+A1:2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

<u>Clause</u> 4.1	Description General requirements	<u>Result</u> Pass
4.2.2	Beards, moustaches, wigs etc., made from hair, pile or material with similar features (e.g. free-hanging ribbons, paper or cloth strands or other flowing elements), which protrude 50mm or more from the surface of the toy	<u>N/A</u>
4.2.3	Beards, moustaches, wigs etc. made from hair, pile or material with similar features (e.g. free-hanging ribbons, paper, cloth strands or other flowing elements), which protrude less than 50mm from the surface of the toy	<u>N/A</u>
4.2.4	Full or partial moulded head masks	N/A
4.2.5	Flowing elements of toys to be worn on the head (except those covered by 4.2.2 and 4.2.3), hoods, head-dresses etc. and masks not covered by 4.2.4 which partially or fully cover the head (e.g. fabric and cardboard masks, eye masks, face masks), but excluding those items covered by 4.3	<u>N/A</u>
4.3	Toy disguise costumes and toys intended to be worn by a child in play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Soft-filled toys	N/A

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA19-291208.001	Black belt
SN2	SHA19-291208.002	White coating(On switch)
SN3	SHA19-291208.003	Colorful coating(On metal logo)
SN4	SHA19-291208.004	Black coaing(On metal frame)
SN5	SHA19-291208.005	Colorful paper sticker(On body)
SN6	SHA19-291208.006	Colorful paper sticker(Instrument panel)
SN7	SHA19-291208.007	Silvery soft plastic sticker(On body)
SN8	SHA19-291208.008	Transparent soft plastic w/black/white(Display screen)
SN9	SHA19-291208.009	Silvery soft plastic mirror
SN10	SHA19-291208.010	White plastic telecontroller
SN11	SHA19-291208.011	Black plastic switch(On telecontroller)
SN12	SHA19-291208.012	Transparent dark grey plastic guard
SN13	SHA19-291208.013	White plastic body
SN14	SHA19-291208.014	Black plastic pilothouse
SN15	SHA19-291208.015	Red plastic switch

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Test Rep	ort	No.: SHHL191	2504691TY-01	Date: JAN. 21, 2020	Page 8 of 23
SN16	SHA1	9-291208.016	Transparent red pla	stic switch	
SN17	SHA1	9-291208.017	Black plastic seat		
SN18	SHA1	9-291208.018	Transparent plastic	light	
SN19	SHA1	9-291208.019	Black plastic switch		
SN20	SHA1	9-291208.020	Dark grey plastic pre	ess-button(On display screen))
SN21	SHA1	9-291208.021	Black plastic wheel		
SN22	SHA1	9-291208.022	Dull-black plastic tire	e	
SN23	SHA1	9-291208.023	Red plastic(On whe	el)	
SN24	SHA1	9-291208.024	Silvery-grey plastic(On wheel)	
SN25	SHA1	9-291208.025	Black plastic lampsh	nade	
SN26	SHA1	9-291208.026	Black plastic buckle	(On black belt)	
SN27	SHA1	9-291208.028	Yellow plastic body		
SN28	SHA1	9-291208.029	Black plastic body		
SN29	SHA1	9-291208.030	Blue plastic body		
SN30	SHA1	9-291208.031	Pink plastic body		
SN31	SHA1	9-291208.032	Green plastic body		
SN32		9-291208.033	Red plastic body		
SN33		9-291208.034	Orange plastic body		
SN34		9-291208.035		Black plastic body+Blue plas	tic body
SN35		9-291208.036	Pink plastic body+G		
SN36		9-291208.037	Red plastic body+O	• · ·	
SN37		9-291208.038	-	e black plastic switch	
SN38		9-291208.039		ntroller + Black plastic switch(
SN39	SHA1	9-291208.040	Transparent dark gr pilothouse	ey plastic guard + White plast	tic body + Black plastic
SN40	SHA1	9-291208.041	Red plastic switch +	Transparent red plastic switc	h + Black plastic seat
SN41	SHA1	9-291208.042	Transparent plastic press-button(On dis	light + Black plastic switch + I play screen)	Dark grey plastic
SN42	SHA1	9-291208.043	Black plastic wheel	+ Dull-black plastic tire + Red	plastic(On wheel)
SN43	SHA1	9-291208.044	Silvery-grey plastic(buckle(On black bel	On wheel) + Black plastic lam t)	pshade + Black plastic

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

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Date: JAN. 21, 2020

Page 9 of 23

EN71-3: 2019 as harmonized standard under Directive 2009/48/EC and its amendment (EU) 2019/1728 – Migration of certain elements (Category III:for scrapped-off toy material)

Test Method : With reference to EN 71-3:2019, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>	<u>002</u>	<u>003</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	-	-
Soluble Lead (Pb)	23	mg/kg	5	ND		
Soluble Antimony (Sb)	560	mg/kg	10	ND		
Soluble Arsenic (As)	47	mg/kg	10	ND		
Soluble Barium (Ba)	18750	mg/kg	50	ND		
Soluble Cadmium (Cd)	17	mg/kg	5	ND		
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	-	-
Soluble Mercury (Hg)	94	mg/kg	10	ND		
Soluble Selenium (Se)	460	mg/kg	10	ND		
Soluble Boron (B)	15000	mg/kg	50	ND		
Soluble Cobalt (Co)	130	mg/kg	10	ND		
Soluble Manganese (Mn)	15000	mg/kg	50	ND		
Soluble Strontium (Sr)	56000	mg/kg	50	ND		
Soluble Zinc (Zn)	46000	mg/kg	50	ND		
Soluble Copper (Cu)	7700	mg/kg	50	ND		
Soluble Aluminum (Al)	70000	mg/kg	50	ND		
Soluble Nickel (Ni)	930	mg/kg	10	ND		
Soluble Tin (Sn)	180000	mg/kg	3	ND		
Soluble Organic Tin*	12	mg/kg	-	ND		
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>004</u>	<u>005</u>	<u>006</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	<u>001</u> ND	ND	<u>000</u> ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	81	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND





Test Report	No.: SHHL191250469	1TY-01	Date	: JAN. 21	, 2020		Page 10 of 23
Test Item(s)		<u>Limit</u>	<u>Unit</u>	MDL	<u>004</u>	<u>005</u>	<u>006</u>
Soluble Cobalt (Co)		130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn))	15000	mg/kg	50	52	ND	ND
Soluble Strontium (Sr)		56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)		46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)		7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)		70000	mg/kg	50	ND	112	ND
Soluble Nickel (Ni)		930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)		180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*		12	mg/kg	-	ND	ND	ND
Test Item(s)		<u>Limit</u>	<u>Unit</u>	MDL	<u>007</u>	<u>008</u>	<u>009</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	- /	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)		560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)		47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)		18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)		17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (C	Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)		94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)		460	mg/kg	10	ND	ND	ND
Soluble Boron (B)		15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)		130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn))	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)		56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)		46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)		7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)		70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)		930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)		180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*		12	mg/kg	-	ND	ND	ND
<u>Test Item(s)</u>		<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	,	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)		560	mg/kg	10	ND	ND	ND





Date: JAN. 21, 2020

Page 11 of 23

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>010</u>	<u>011</u>	<u>012</u>	
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND	
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND	
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND	
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND	
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND	
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND	
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND	
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND	
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND	
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND	
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND	
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND	
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	ND	
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND	
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND	
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND	
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>015</u>	
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND	
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND	
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND	
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND	
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND	
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND	
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND	
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND	
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND	
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND	



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Test Report No.: SHHL1912504691TY-01 Date: JAN. 21, 2020 Test Item(s) Limit Unit Soluble Cobalt (Co) 130 mg/kg Soluble Manganese (Mn) 15000 mg/kg

50 ND ND ND Soluble Strontium (Sr) ND ND ND 56000 mg/kg 50 ND ND Soluble Zinc (Zn) 46000 mg/kg 50 ND Soluble Copper (Cu) 7700 mg/kg 50 ND ND ND Soluble Aluminum (Al) 70000 mg/kg 50 ND ND ND ND Soluble Nickel (Ni) 930 mg/kg 10 ND ND 180000 ND ND ND Soluble Tin (Sn) mg/kg 3 Soluble Organic Tin* 12 mg/kg ND ND ND -Test Item(s) Limit Unit MDL 016 017 018 Soluble Chromium (VI) (Cr VI) 0.053 mg/kg 0.025 ND ND ND Soluble Lead (Pb) 23 mg/kg ND ND ND 5 Soluble Antimony (Sb) 560 mg/kg 10 ND ND ND Soluble Arsenic (As) 47 mg/kg 10 ND ND ND Soluble Barium (Ba) 18750 mg/kg 50 ND ND ND Soluble Cadmium (Cd) 17 5 ND ND ND mg/kg Soluble Chromium (III) (Cr III) 460 5 ND ND ND mg/kg Soluble Mercury (Hg) 94 mg/kg 10 ND ND ND Soluble Selenium (Se) 460 mg/kg 10 ND ND ND Soluble Boron (B) 15000 mg/kg 50 ND ND ND Soluble Cobalt (Co) ND ND 130 mg/kg 10 ND Soluble Manganese (Mn) 15000 50 ND ND ND mg/kg Soluble Strontium (Sr) 56000 mg/kg 50 ND ND ND 46000 ND ND ND Soluble Zinc (Zn) mg/kg 50 ND Soluble Copper (Cu) 7700 mg/kg 50 ND ND ND Soluble Aluminum (Al) 70000 mg/kg 50 ND ND Soluble Nickel (Ni) 930 mg/kg 10 ND ND ND

180000

12

mg/kg

mg/kg

3

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ND

ND



Soluble Tin (Sn)

Soluble Organic Tin*

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MDL

10

013

ND

014

ND

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ND

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ND

Page 12 of 23

015

ND



Date: JAN. 21, 2020

Page 13 of 23

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>019</u>	<u>020</u>	<u>021</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>022</u>	<u>023</u>	<u>024</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND



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Test Report	No.: SHHL19125046	1912504691TY-01 Date: JAN. 21, 2020		I	Page 14 of 23		
<u>Test Item(s)</u>		<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>022</u>	<u>023</u>	<u>024</u>
Soluble Copper (Cu)		7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)		70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)		930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)		180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*		12	mg/kg	-	ND	ND	ND
<u>Test Item(s)</u>		<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>025</u>	<u>026</u>	<u>028</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)		23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)		560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)		47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)		18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)		17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (C	Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)		94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)		460	mg/kg	10	ND	ND	ND
Soluble Boron (B)		15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)		130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn))	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)		56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)		46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)		7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)		70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)		930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)		180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*		12	mg/kg	-	ND	ND	ND
<u>Test Item(s)</u>		<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>029</u>	<u>030</u>	<u>031</u>
Soluble Chromium (VI) (0	Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)		23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)		560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)		47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)		18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)		17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (C	Cr III)	460	mg/kg	5	ND	ND	ND





Test Report

No.: SHHL1912504691TY-01

Date: JAN. 21, 2020

Page 15 of 23

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>029</u>	<u>030</u>	<u>031</u>
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>032</u>	<u>033</u>	<u>034</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND



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Date: JAN. 21, 2020

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Page 16 of 23
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Notes :

(1) Mass of trace amount of sample 004 is 43.8mg, sample 006 is 51.4mg, sample 007 is 59.1mg, sample 008 is 87.2mg, sample 009 is 70.9mg, sample 011 is 25.3mg.

(2) As received, the test portion of 002~003 is less than 10mg, therefore such components were not tested for migration of certain elements, as specified in the European Standard EN 71-3:2019.
(3) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019.

Entry 51 & 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC)-Phthalates content

Test Method : With reference to CPSC-CH-C 1001-09.3, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Limit</u>	<u>Unit</u>	MDL	<u>003</u>	<u>004</u>	<u>005</u>
For all toys and childcare articles							
Dibutyl Phthalate (DBP)	84-74-2	-	%	0.003	ND	ND	ND
Benzylbutyl Phthalate (BBP)	85-68-7	-	%	0.003	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	-	%	0.003	ND	ND	ND
Total (DBP+BBP+DEHP)		0.1	%	-	ND	ND	ND
For toys and childcare articles							
that can be mouthed							
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	-	%	0.01	ND	ND	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%	0.003	ND	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0	-	%	0.01	ND	ND	ND
	/68515-49-1						
Total (DINP+DNOP+DIDP)		0.1	%	-	ND	ND	ND
Conclusion					PASS	PASS	PASS



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<u>Test Item(s)</u> For all toys and childca	<u>CAS NO.</u> are	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>007</u>	<u>008</u>		
articles Dibutyl Phthalate (DBP)	84-74-2	-	%	0.003	ND	ND	ND		
Benzylbutyl Phthalate (B	BP) 85-68-7	-	%	0.003	ND	ND	ND		
Bis-(2-ethylhexyl) Phthal (DEHP)	ate 117-81-7	-	%	0.003	ND	ND	ND		
Total (DBP+BBP+DEHP)	0.1	%	-	ND	ND	ND		
For toys and childcare that can be mouthed	articles								
Diisononyl Phthalate (Dli	NP) 28553-12-0 /68515-48-0	-	%	0.01	ND	ND	ND		
Di-n-octyl Phthalate (DN		-	%	0.003	ND	ND	ND		
Diisodecyl Phthalate (DII	DP) 26761-40-0 /68515-49-1	-	%	0.01	ND	ND	ND		
Total (DINP+DNOP+DID		0.1	%	-	ND	ND	ND		
Conclusion					PASS	PASS	PASS		
		Lineit	1.1		000	005	000		
Test Item(s) For all toys and childca	<u>CAS NO.</u> are	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>009</u>	<u>035</u>	<u>036</u>		
articles Dibutyl Phthalate (DBP)	84-74-2	-	%	0.003	ND	ND	ND		



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Test Report	No.: SHHL191250469	1TY-01	Date	: JAN. 21,	2020	Р	age 18 of 23
<u>Test Item(s)</u> Benzylbutyl Phthalate (Bl	<u>CAS NO.</u> 3P) 85-68-7	<u>Limit</u> -	<u>Unit</u> %	<u>MDL</u> 0.003	<u>009</u> ND	<u>035</u> ND	<u>036</u> ND
Bis-(2-ethylhexyl) Phthala (DEHP)	te 117-81-7	-	%	0.003	ND	ND	ND
Total (DBP+BBP+DEHP)		0.1	%	-	ND	ND	ND
For toys and childcare a that can be mouthed	articles						
Diisononyl Phthalate (DIN	IP) 28553-12-0 /68515-48-0	-	%	0.01	ND	ND	ND
Di-n-octyl Phthalate (DNC		-	%	0.003	ND	ND	ND
Diisodecyl Phthalate (DIE	PP) 26761-40-0 /68515-49-1	-	%	0.01	ND	ND	ND
Total (DINP+DNOP+DID		0.1	%	-	ND	ND	ND
Conclusion					PASS	PASS	PASS
<u>Test Item(s)</u> For all toys and childca articles	<u>CAS NO.</u> re	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>037</u>	<u>038</u>	<u>039</u>
Dibutyl Phthalate (DBP)	84-74-2	-	%	0.003	ND	ND	ND
Benzylbutyl Phthalate (Bl	BP) 85-68-7	-	%	0.003	ND	ND	ND
Bis-(2-ethylhexyl) Phthala (DEHP)	ite 117-81-7	-	%	0.003	ND	ND	ND
Total (DBP+BBP+DEHP)		0.1	%	-	ND	ND	ND
For toys and childcare a that can be mouthed	articles						
Diisononyl Phthalate (DIN	IP) 28553-12-0 /68515-48-0	-	%	0.01	ND	ND	ND
Di-n-octyl Phthalate (DNC		-	%	0.003	ND	ND	ND
Diisodecyl Phthalate (DIE	PP) 26761-40-0 /68515-49-1	-	%	0.01	ND	ND	ND
Total (DINP+DNOP+DID		0.1	%	-	ND	ND	ND
Conclusion					PASS	PASS	PASS



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Test Report	No.: SHHL191250469	1TY-01	Date	: JAN. 21,	2020	Р	age 19 of 23
<u>Test Item(s)</u> For all toys and childca	<u>CAS NO.</u> re	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>040</u>	<u>041</u>	<u>042</u>
articles Dibutyl Phthalate (DBP)	84-74-2	-	%	0.003	ND	ND	ND
Benzylbutyl Phthalate (Bl	BP) 85-68-7	-	%	0.003	ND	ND	ND
Bis-(2-ethylhexyl) Phthala (DEHP)	ate 117-81-7	-	%	0.003	ND	ND	ND
Total (DBP+BBP+DEHP)		0.1	%	-	ND	ND	ND
For toys and childcare a	articles						
that can be mouthed Diisononyl Phthalate (DIN	NP) 28553-12-0 /68515-48-0	-	%	0.01	ND	ND	ND
Di-n-octyl Phthalate (DNC		-	%	0.003	ND	ND	ND
Diisodecyl Phthalate (DI	DP) 26761-40-0 /68515-49-1	-	%	0.01	ND	ND	ND
Total (DINP+DNOP+DID		0.1	%	-	ND	ND	ND
Conclusion					PASS	PASS	PASS
<u>Test Item(s)</u> For all toys and childca articles	<u>CAS NO.</u> re	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>043</u>	<u>044</u>	
Dibutyl Phthalate (DBP)	84-74-2	-	%	0.003	ND	ND	
Benzylbutyl Phthalate (Bl	BP) 85-68-7	-	%	0.003	ND	ND	
Bis-(2-ethylhexyl) Phthala (DEHP)	ate 117-81-7	-	%	0.003	ND	ND	
Total (DBP+BBP+DEHP)		0.1	%	-	ND	ND	
For toys and childcare a that can be mouthed	articles						
Diisononyl Phthalate (DIN	NP) 28553-12-0 /68515-48-0	-	%	0.01	ND	ND	
Di-n-octyl Phthalate (DNC		-	%	0.003	ND	ND	
Diisodecyl Phthalate (DI	DP) 26761-40-0 /68515-49-1	-	%	0.01	ND	ND	



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Test Report	No.: SHHL1912504691TY-01		Date: JAN. 21, 2020			Page 20 of 23	
<u>Test Item(s)</u> Total (DINP+DNOP+DIDF	CAS NO. ?)	<u>Limit</u> 0.1	<u>Unit</u> %	MDL -	<u>043</u> ND	<u>044</u> ND	
Conclusion					PASS	PASS	

Notes :

European Parliament adopted new phthalate Entry 51 & 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC);

(1-1) DBP, BBP and DEHP are totally banned for use in any toys on childcare articles where their concentration exceeds 0.1% by mass.

(1-2) DINP, DNOP, DIDP are totally banned for use in toys and childcare articles that can be mouthed where their concentration exceeds 0.1% by mass.

Remark: Composite test has been performed.

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Test Report

No.: SHHL1912504691TY-01

Date: JAN. 21, 2020

Page 21 of 23

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Page 22 of 23

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Test Report

No.: SHHL1912504691TY-01

Date: JAN. 21, 2020

Page 23 of 23



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