



**Test Report**

No.: SHHL1912504691TY-01

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

<u>Test Requested</u>	<u>Result</u>
EN 71-1: 2014+A1: 2018 – Safety of toys – Part 1: Mechanical and Physical Properties	<u>Pass</u>
Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer 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	<u>See Result</u>
EN 71-2: 2011+A1: 2014 – Safety of toys – Part 2: Flammability	<u>Pass</u>
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)	<u>Pass</u>
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	<u>Pass</u>

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



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



scan to see the report



SHHL1912504691TY-01

Wallace Lui  
Senior Technical Manager, Asia



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Testing Center Harbin

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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>	<u>Description</u>	<u>Result</u>
4	General requirements	
4.1	Material cleanliness	<u>Pass</u>
4.2	Assembly	<u>Pass</u>
4.3	Flexible plastics sheeting	<u>N/A</u>
4.4	Toy bags	<u>N/A</u>
4.5	Glass	<u>N/A</u>
4.6	Expanding materials	<u>N/A</u>
4.7	Edges	<u>Pass</u>
4.8	Points and metallic wires	<u>Pass</u>
4.9	Protruding parts	<u>N/A</u>
4.10	Parts moving 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	<u>Pass</u>
	4.10.4 Springs	<u>N/A</u>
4.11	Mouth-actuated 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	Enclosures:	
	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 intended 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 immobile toys	<u>N/A</u>
4.17	Projectiles	<u>N/A</u>
4.18	Aquatic toys and inflatable toys	<u>N/A</u>



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4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	<u>N/A</u>
4.20	Acoustics	<u>Pass</u>
4.21	Toys containing a non-electrical heat source	<u>N/A</u>
4.22	Small balls	<u>N/A</u>
4.23	Magnets	<u>N/A</u>
4.24	Yoyo balls	<u>N/A</u>
4.25	Toys attached to food	<u>N/A</u>
4.26	Toy disguise costumes	<u>N/A</u>
4.27	Flying toys	<u>N/A</u>
5	Toys intended 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)	<u>N/A</u>
	Drop test (Test method 8.5)	<u>N/A</u>
	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 toys and soft-filled parts of a toy	<u>N/A</u>
5.3	Plastic sheeting	<u>N/A</u>
5.4	Cords, chains and electrical cable in toys	<u>N/A</u>
5.5	Liquid filled toys	<u>N/A</u>
5.6	Speed limitation of electrically driven toys	<u>N/A</u>
5.7	Glass and porcelain	<u>N/A</u>
5.8	Shape and size of certain toys	<u>N/A</u>
5.9	Toys comprising monofilament fibres	<u>N/A</u>
5.10	Small balls	<u>N/A</u>
5.11	Play figures	<u>N/A</u>



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5.12	Hemispheric shaped toys	<u>N/A</u>
5.13	Suction cups	<u>N/A</u>
5.14	Straps intended to be used fully or partially around the neck	<u>N/A</u>
5.15	Sledges with cords for pulling	<u>N/A</u>
6	Packaging	<u>Pass</u>
7	Warnings, markings and instructions for use	
7.1	General Requirements	<u>Pass</u>
	Note: Please note that for assessing the visibility and legibility of warnings, CEN has introduced good practice in the informative Annex A.33 by addressing the following aspects:	
	a) Emphasising the warning	
	b) Contrast, background and colours	
	c) Reflecting surfaces and obscuring material	
	d) Font type	
	e) Font size	
	f) Logical direction of text	
	For more details, see EN 71-1.	
7.2	Toys not intended for children under 36 months (Remark: The toy contains small part. It is acceptable because appropriate warning is found on packaging.)	<u>Pass</u> <u>See Remark</u>
7.3	Latex Balloon	<u>N/A</u>
7.4	Aquatic toys	<u>N/A</u>
7.5	Functional Toys	<u>N/A</u>
7.6	Hazardous sharp functional edges and points	<u>N/A</u>
7.7	Projectiles	<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	Roller skates, inline skates and toy skateboards and certain other ride-on toys	<u>Pass</u>
7.11	Toys intended to be attaché to or strung across a cradle, cot, or perambulator	<u>N/A</u>
7.12	Liquid filled teethers	<u>N/A</u>
7.13	Percussion caps specifically designed for use in toys	<u>N/A</u>
7.14	Acoustics	<u>N/A</u>
7.15	Toys bicycle	<u>N/A</u>
7.16	Toys intended to bear the mass of a child	<u>N/A</u>
7.17	Toys comprising monofilament fibres	<u>N/A</u>
7.18	Toy scooters	<u>N/A</u>
7.19	Rocking horses and similar toys	<u>N/A</u>
7.20	Magnetic/electrical experimental sets	<u>N/A</u>
7.21	Toys with electrical cables exceeding 300 mm in length	<u>N/A</u>



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7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	<u>N/A</u>
7.23	Toys intended to be attached to a cradle, cot or perambulator	<u>N/A</u>
7.24	Sledges with cords for pulling	<u>N/A</u>
7.25	Flying toys	<u>N/A</u>
7.26	Improvised projectiles	<u>N/A</u>

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:

1. 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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**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>	<u>Description</u>	<u>Result</u>
4.1	General requirements	<u>Pass</u>
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	<u>N/A</u>
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	<u>N/A</u>
4.4	Toys intended to be entered by a child	<u>N/A</u>
4.5	Soft-filled toys	<u>N/A</u>

Test Part Description :

<b>Specimen No.</b>	<b>SGS Sample ID</b>	<b>Description</b>
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 coating(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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SN16	SHA19-291208.016	Transparent red plastic switch
SN17	SHA19-291208.017	Black plastic seat
SN18	SHA19-291208.018	Transparent plastic light
SN19	SHA19-291208.019	Black plastic switch
SN20	SHA19-291208.020	Dark grey plastic press-button(On display screen)
SN21	SHA19-291208.021	Black plastic wheel
SN22	SHA19-291208.022	Dull-black plastic tire
SN23	SHA19-291208.023	Red plastic(On wheel)
SN24	SHA19-291208.024	Silvery-grey plastic(On wheel)
SN25	SHA19-291208.025	Black plastic lampshade
SN26	SHA19-291208.026	Black plastic buckle(On black belt)
SN27	SHA19-291208.028	Yellow plastic body
SN28	SHA19-291208.029	Black plastic body
SN29	SHA19-291208.030	Blue plastic body
SN30	SHA19-291208.031	Pink plastic body
SN31	SHA19-291208.032	Green plastic body
SN32	SHA19-291208.033	Red plastic body
SN33	SHA19-291208.034	Orange plastic body
SN34	SHA19-291208.035	Yellow plastic body+Black plastic body+Blue plastic body
SN35	SHA19-291208.036	Pink plastic body+Green plastic body
SN36	SHA19-291208.037	Red plastic body+Orange plastic body
SN37	SHA19-291208.038	White coating w/little black plastic switch
SN38	SHA19-291208.039	White plastic telecontroller + Black plastic switch(On telecontroller)
SN39	SHA19-291208.040	Transparent dark grey plastic guard + White plastic body + Black plastic pilohouse
SN40	SHA19-291208.041	Red plastic switch + Transparent red plastic switch + Black plastic seat
SN41	SHA19-291208.042	Transparent plastic light + Black plastic switch + Dark grey plastic press-button(On display screen)
SN42	SHA19-291208.043	Black plastic wheel + Dull-black plastic tire + Red plastic(On wheel)
SN43	SHA19-291208.044	Silvery-grey plastic(On wheel) + Black plastic lampshade + Black plastic buckle(On black belt)

**Remarks :**

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



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**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>	<u>MDL</u>	<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>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</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	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



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Test Item(s)	Limit	Unit	MDL	004	005	006
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)	Limit	Unit	MDL	007	008	009
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

Test Item(s)	Limit	Unit	MDL	010	011	012
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



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<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 Item(s)	Limit	Unit	MDL	013	014	015
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)	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	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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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<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>	<u>MDL</u>	<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 Item(s)	Limit	Unit	MDL	022	023	024
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)	Limit	Unit	MDL	025	026	028
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

Test Item(s)	Limit	Unit	MDL	029	030	031
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



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# Test Report

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<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

  

<u>Test Item(s)</u>	<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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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.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>004</u>	<u>005</u>
<b>For all toys and childcare articles</b>							
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
<b>For toys and childcare articles that can be mouthed</b>							
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 /68515-49-1	-	%	0.01	ND	ND	ND
Total (DINP+DNOP+DIDP)		0.1	%	-	ND	ND	ND
<b>Conclusion</b>					<b>PASS</b>	<b>PASS</b>	<b>PASS</b>



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>007</u>	<u>008</u>
<b>For all toys and childcare articles</b>							
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
<b>For toys and childcare articles that can be mouthed</b>							
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 /68515-49-1	-	%	0.01	ND	ND	ND
Total (DINP+DNOP+DIDP)		0.1	%	-	ND	ND	ND
<b>Conclusion</b>					<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>009</u>	<u>035</u>	<u>036</u>
<b>For all toys and childcare articles</b>							
Dibutyl Phthalate (DBP)	84-74-2	-	%	0.003	ND	ND	ND



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Test Item(s)	CAS NO.	Limit	Unit	MDL	009	035	036
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 /68515-49-1	-	%	0.01	ND	ND	ND
Total (DINP+DNOP+DIDP)		0.1	%	-	ND	ND	ND

### Conclusion

**PASS PASS PASS**

Test Item(s)	CAS NO.	Limit	Unit	MDL	037	038	039
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 /68515-49-1	-	%	0.01	ND	ND	ND
Total (DINP+DNOP+DIDP)		0.1	%	-	ND	ND	ND

### Conclusion

**PASS PASS PASS**



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Test Item(s)	CAS NO.	Limit	Unit	MDL	040	041	042
<b>For all toys and childcare articles</b>							
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 /68515-49-1	-	%	0.01	ND	ND	ND
Total (DINP+DNOP+DIDP)		0.1	%	-	ND	ND	ND

**Conclusion** **PASS PASS PASS**

Test Item(s)	CAS NO.	Limit	Unit	MDL	043	044
<b>For all toys and childcare articles</b>						
Dibutyl Phthalate (DBP)	84-74-2	-	%	0.003	ND	ND
Benzylbutyl Phthalate (BBP)	85-68-7	-	%	0.003	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	-	%	0.003	ND	ND
Total (DBP+BBP+DEHP)		0.1	%	-	ND	ND

## For toys and childcare articles that can be mouthed

Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	-	%	0.01	ND	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%	0.003	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	-	%	0.01	ND	ND



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>043</u>	<u>044</u>
Total (DINP+DNOP+DIDP)		0.1	%	-	ND	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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\*\*\* End of Report \*\*\*



SGS-CSTC Technical Services (Shanghai) Co., Ltd.  
Testing Center Harbin

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4<sup>th</sup> Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233 t (86) 400 960 9661 f (86-21) 6115 6899 www.sgsgroup.com.cn  
中国·上海·徐汇区宜山路889号4号楼 邮编: 200233 t (86) 400 960 9661 f (86-21) 6115 6899 e sgs.china@sgs.com