

HAPE INTERNATIONAL (NINGBO) LTD  
 HAPPY ARTS&CRAFTS (NINGBO) CO., LTD  
 9-27NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO, CHINA

Sample Description : DUMPER TRUCK/ FAMILY CAR/ ART PAPER  
 ROLL/ART PAPER ROLL(TWO PACK)

Sample Quantity : 18 SETS

Style / Item No. : E3013/ E3475/ E1011

Country of Origin : CHINA

Country of Destination : GLOBAL

Labeled Age Grading : E3013/ E3475/ E1011: 3Y+

Requested Age Grading : E3013/ E3475/ E1011: 3Y+

Client reference information : E3013A/E8068,E8068A/ E3475A/  
 E1011A/E8903,E8903A

Asin No : B00SXFAVNU/ B0071BFM36/ B00II022O6  
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Age Group Assessed as Per Age Guideline : FOR ITEM E3013/ E3475: 2+YEARS  
 FOR ITEM E1011: 3+YEARS

Age Group Applied in Testing : FOR ITEM E3013/ E3475: 2+YEARS  
 FOR ITEM E1011: 3+YEARS

Sample Receiving Date : DEC 01, 2021

Further Information Date : DEC 17, 2021

Testing Period : DEC 01, 2021 TO DEC 17, 2021

<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>
EN 71-2:2020 – Safety of toys – Part 2: Flammability	<u>Pass</u>
Directive 2009/48/EC and its amendment Commission Directive (EU) 2019/1922 - EN71-3: 2019 – Migration of certain elements (Category III:for scrapped-off toy material)	<u>Pass</u>
COMMISSION IMPLEMENTING DECISION (EU) 2021/1992 on harmonised standards for toys drafted in support of Directive 2009/48/EC - EN71-3: 2019+A1:2021 – Migration of certain elements (Category III:for scrapped-off toy material)	<u>Pass</u>



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

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

*Jessie Zhou*

scan to see the report



SHHL2112065917TY

Jessie Zhou  
Authorized Signatory



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SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. Testing Center Hardware	4 <sup>th</sup> Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233	t (86) 400 960 9661	f (86-21) 6115 6899	<a href="http://www.sgs.com">www.sgs.com</a>
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Results:

**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>
4.7	Edges	<u>Pass</u>
4.8	Points and metallic wires	<u>Pass</u>
4.9	Protruding parts	<u>Pass</u>
4.10	Parts moving against each other:	
	4.10.3 Hinges	<u>N/A</u> <u>See remark</u>
	(Remark: Not applicable to products with a hinged part that has a mass less than 250g.)	
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>Pass</u>
	5.1b Torque test (Test method 8.3)	<u>Pass</u>
	Tension test (Test method 8.4)	<u>Pass</u>
	Drop test (Test method 8.5)	<u>Pass</u>
	Impact test (Test method 8.7)	<u>Pass</u>
	Compression test (Test method 8.8)	<u>Pass</u>
	Sharp edge (Test method 8.11)	<u>Pass</u>
	Sharp point (Test method 8.12)	<u>Pass</u>
	5.1e Glued wooden toys and toys with glued on plastic decals	<u>Pass</u>
5.4	Cords, chains and electrical cable in toys	<u>Pass</u>
7	Warnings, markings and instructions for use (FOR ITEM E1011)	
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.	



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7.2 Toys not intended for children under 36 months N/A  
 (Remark: No hazard was found before and after abuse test with reference to See Remark  
 clause 5.)

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 THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS**

Summary table: FOR ITEM E3013/ E3475:

	Observation Result	Location
Washing/Cleaning instruction	Not applicable	/
CE Mark	Present	Toy/Packaging
Importer's Name & Address	Present	Toy/Packaging
Manufacturer's Name & Address	Present	Toy/Packaging
Product ID	Present	Toy/Packaging

FOR ITEM E1011:

	Observation Result	Location
Washing/Cleaning instruction	Not applicable	/
CE Mark	Present	Packaging
Importer's Name & Address	Present	Packaging
Manufacturer's Name & Address	Present	Packaging
Product ID	Present	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>

**EN 71-2:2020 – SAFETY OF TOYS – PART 2: FLAMMABILITY**

AS SPECIFIED IN EN 71-2:2020 – 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>

N.B. : - Only applicable clauses were shown.

Test Part Description :

<b>Specimen No.</b>	<b>SGS Sample ID</b>	<b>Description</b>
SN1	SHA21-269242.001	Natural color MDF
SN2	SHA21-269242.002	Natural color plywood
SN3	SHA21-269242.003	Natural color wood
SN4	SHA21-269242.004	Orange coating
SN5	SHA21-269242.005	Transparent ABS
SN6	SHA21-269242.006	Yellow POM
SN7	SHA21-269242.007	Grey PP
SN8	SHA21-269242.010	White elastic band
SN9	SHA21-269242.011	Red coating
SN10	SHA21-269242.012	Yellow coating
SN11	SHA21-269242.013	Brown coating
SN12	SHA21-269242.014	Black coating
SN13	SHA21-269242.015	Grey coating
SN14	SHA21-269242.016	Transparent coating
SN15	SHA21-269242.017	White paper

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit



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(3) ND = Not Detected ( < MDL )

(4) "-" = Not Regulated

**Directive 2009/48/EC and its amendment Commission Directive (EU) 2019/1922 - EN71-3: 2019 – 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.  
Soluble Organic Tin was analyzed by GC-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	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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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</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	73
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)	28130	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>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	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)	28130	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>007</u>	<u>010</u>	<u>011</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	1040	62
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	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>012</u>	<u>013</u>	<u>014</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)	28130	mg/kg	50	84	---	---
Soluble Nickel (Ni)	930	mg/kg	10	ND	---	---
Soluble Tin (Sn)	180000	mg/kg	3	ND	---	---
Soluble Organic Tin*	12	mg/kg	-	ND	---	---



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>015</u>	<u>016</u>	<u>017</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	---	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	---	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	---	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	---	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	---	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	---	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	---	ND	ND
Soluble Boron (B)	15000	mg/kg	50	---	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	---	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	---	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	---	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	---	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	---	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	---	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	---	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	---	ND	ND
Soluble Organic Tin*	12	mg/kg	-	---	ND	ND

**Notes :**

- (1) According to the Commission Implementing Decision (EU) 2021/867 of 28 May 2021, published in the OJEU. The EN 71-3:2019 is adopted as the harmonised standard for toys drafted in support of Directive 2009/48/EC.
- (2) Mass of trace amount of sample 004 is 23.5mg, sample 011 is 30.0mg, sample 012 is 31.3mg, sample 016 is 38.8mg
- (3) As received, the test portion of 013, 014, 015 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.
- (4)\*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.



**COMMISSION IMPLEMENTING DECISION (EU) 2021/1992 on harmonised standards for toys drafted in support of Directive 2009/48/EC - EN71-3: 2019+A1:2021 – Migration of certain elements (Category III:for scrapped-off toy material)**

Test Method : With reference to EN 71-3:2019+A1:2021, 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	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	73
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)	28130	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>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	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)	28130	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



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## Test Report

No.: SHHL2112065917TY

Date: DEC 17, 2021

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Test Item(s)	Limit	Unit	MDL	004	005	006
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	007	010	011
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	1040	62
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	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>012</u>	<u>013</u>	<u>014</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	---	---



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>012</u>	<u>013</u>	<u>014</u>
Soluble Aluminum (Al)	28130	mg/kg	50	84	---	---
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>015</u>	<u>016</u>	<u>017</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	---	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	---	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	---	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	---	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	---	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	---	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	---	ND	ND
Soluble Boron (B)	15000	mg/kg	50	---	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	---	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	---	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	---	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	---	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	---	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	---	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	---	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	---	ND	ND
Soluble Organic Tin*	12	mg/kg	-	---	ND	ND

**Notes :**

- (1) According to the Commission Implementing Decision (EU) 2021/1992 of November 15, 2021, published in the OJEU. The EN 71-3:2019+A1:2021 is adopted as the harmonized standard for toys drafted in support of Directive 2009/48/EC.
- (2) Mass of trace amount of sample 004 is 23.5mg, sample 011 is 30.0mg, sample 012 is 31.3mg, sample 016 is 38.8mg.
- (3) As received, the test portion of 013, 014, 015 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+A1:2021.
- (4) \*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+A1:2021.



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Remark:

The test results 001, 002, 004, 010, 014, 016 are taken from report SHA21-207629.002, 001, 013, 007, 009, 014  
 The test results 003, 015 are taken from report SHA21-228301.016, 011  
 The test results 011 are taken from report SHA21-194660.004  
 The test results 012, 013 are taken from report SHA21-205023.010, 019

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