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

LIGHT AND SOUND TUNNEL/ Sample Description

MIGHTY MOUNTAIN MINE/

LARGE BOOM CRANE

Sample Quantity 15 SETS

E3739/ E3753/ E3715 Style / Item No.

Country of Origin **CHINA** Country of Destination **GLOBAL**

Labeled Age Grading 3+ Requested Age Grading 3v+

Client Reference Information E3739A/ E3753A/ E3715A

Age Group Assessed as Per Age Guideline 3+ YEARS Age Group Applied in Testing 3+ YEARS Sample Receiving Date JUN 16, 2021 **Further Information Date** JUN 28, 2021

Testing Period JUN 16, 2021 TO JUN 29, 2021

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**

EN 71-2:2020 – Safety of toys – Part 2: Flammability Pass

EN71-3: 2019 as harmonized standard under Directive 2009/48/EC and its **Pass** amendment (EU) 2019/1922 - Migration of certain elements (Category III:for

scrapped-off toy material)

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)



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Pass



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EN 71-3:2019+A1:2021– Migration of certain elements (Category III:for scrapped-off toy material)

<u>Pass</u>

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

Jesse Thou

SHHL2106030781T\

Jessie Zhou Authorized Signatory





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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:

For item E3753:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	General requirements	
4.1	Material cleanliness	Pass
4.2	Assembly	<u>Pass</u>
4.7	Edges	Pass
4.8	Points and metallic wires	<u>Pass</u>
4.10	Parts moving against each other:	
	4.10.3 Hinges	<u>N/A</u>
	(Not applicable to products with a hinged part that has a mass less than 250g.)	
4.20	Acoustics	<u>Pass</u>
4.23	Magnets	<u>Pass</u>
6	Packaging	<u>Pass</u>
7	Warnings, markings and instructions for use	
7.1	General Requirements	Pass
	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 long cord. It is acceptable because appropriate warning is found on packaging.)	<u>Pass</u> <u>See Remark</u>



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For item E3715&E3739:

Description	Result
General requirements	
Material cleanliness	<u>Pass</u>
Edges	<u>Pass</u>
Points and metallic wires	<u>Pass</u>
Parts moving against each other:	
4.10.3 Hinges	N/A
(Not applicable to products with a hinged part that has a mass less than 250g.)	
Acoustics	<u>Pass</u>
Magnets	<u>Pass</u>
Packaging	<u>Pass</u>
Warnings, markings and instructions for use	
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:	
g) Emphasising the warning	
h) Contrast, background and colours	
i) Reflecting surfaces and obscuring material	
j) Font type	
k) Font size	
Logical direction of text	
For more details, see EN 71-1.	
Toys not intended for children under 36 months (Remark: The toy contains long cord. It is acceptable because appropriate warning is found on packaging.)	Pass See Remark
	General requirements Material cleanliness Edges Points and metallic wires Parts moving against each other: 4.10.3 Hinges (Not applicable to products with a hinged part that has a mass less than 250g.) Acoustics Magnets Packaging Warnings, markings and instructions for use General Requirements 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: g) Emphasising the warning h) Contrast, background and colours i) Reflecting surfaces and obscuring material j) Font type k) Font size l) Logical direction of text For more details, see EN 71-1. Toys not intended for children under 36 months (Remark: The toy contains long cord. It is acceptable because appropriate

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 N/C = Not conducted as per client's request

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:

	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



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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.
- 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.
- 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.

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:

Clause Description Result 4.1 General requirements Pass

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

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:

Clause Description Result General requirements **Pass**

Type of gas: Butane gas used in the test burner

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



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Test Results:

Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	SHA21-129228.001	Natural color wood
SN2	SHA21-129228.002	Natural color MDF
SN3	SHA21-129228.003	Colorful coating
SN4	SHA21-129228.004	Grey ABS body
SN5	SHA21-129228.005	Dk.Grey ABS
SN6	SHA21-129228.006	Black POM
SN7	SHA21-129228.007	Red ABS
SN8	SHA21-129228.008	Green ABS
SN9	SHA21-129228.009	Orange ABS body
SN10	SHA21-129228.010	Black PP wheel
SN11	SHA21-129228.011	Red PP
SN12	SHA21-129228.012	Black ABS
SN13	SHA21-129228.014	White nylon rope
SN14	SHA21-129228.015	Dk.Blue ABS
SN15	SHA21-129228.016	Dk.Brown ABS
SN16	SHA21-129228.017	Grey PP
SN17	SHA21-129228.018	Black HIPS
SN18	SHA21-129228.019	Grey rubber

Remarks:

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

EN71-3: 2019 as harmonized standard under Directive 2009/48/EC and its amendment (EU) 2019/1922 - 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.

Test Item(s)	<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	-
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	
Soluble Antimony (Sb)	560	ma/ka	10	ND	ND	



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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	145		
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		
Test Item(s)	<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	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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Test Item(s)		<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<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)	(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 (M	n)	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 (AI)		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
Test Item(s)		<u>Limit</u>	<u>Unit</u>	MDL	<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)	(0. 11)	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 (M	n)	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

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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>014</u>	<u>015</u>	<u>016</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 (Mr	n)	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 (AI)		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
Test Item(s)		<u>Limit</u>	<u>Unit</u>	MDL	<u>017</u>	<u>018</u>	<u>019</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 (Mr	n)	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



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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	

Notes:

- (1) Mass of trace amount of sample 006 is 18.1mg, sample 007 is 39.6mg, sample 008 is 45.4mg, sample 010 is 79.8mg, sample 014 is 55.1mg, sample 017 is 71.8mg.
- (2) As received, the test portion of 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.

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.

Test Item(s)	<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	-
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	127	
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 (AI)	70000	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	



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Test Item(s)	<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)	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>	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) (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	



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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>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	
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	1)	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 (AI)		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>	MDL	<u>014</u>	<u>015</u>	<u>016</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	1)	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	



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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>017</u>	<u>018</u>	<u>019</u>
Soluble Chromium (VI) (C	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 (AI)		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

Notes:

- (1) Mass of trace amount of sample 006 is 34.8mg, sample 007 is 40.3mg, sample 008 is
- 37.3mg, sample 010 is 79.1mg, sample 014 is 40.2mg, sample 017 is 83.6mg.
- (2) As received, the test portion of 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.



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EN 71-3:2019+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.

Test Item(s)	<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	-
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	126	
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	
Test Item(s)	<u>Limit</u>	Lloit	MDL	004	005	006
	0.053	<u>Unit</u>		<u>004</u> ND	<u>005</u> ND	<u>006</u> ND
Soluble Chromium (VI) (Cr VI)	23	mg/kg	0.025 5	ND	ND ND	ND
Soluble Lead (Pb)	23 560	mg/kg	5 10	ND	ND ND	ND
Soluble Antimony (Sb)	47	mg/kg	10	ND	ND ND	
Soluble Arsenic (As)	47 18750	mg/kg		ND	ND ND	ND ND
Soluble Barium (Ba)		mg/kg	50 5			
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



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



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Soluble Manganese (Mi	n)	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 (AI)		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	
Test Item(s)		<u>Limit</u>	<u>Unit</u>	MDL	<u>014</u>	<u>015</u>	<u>016</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 (Mi	n)	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	
Test Item(s)		<u>Limit</u>	<u>Unit</u>	MDL	<u>017</u>	<u>018</u>	<u>019</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	



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Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND	
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND	
Soluble Manganese (Mr	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	

Notes:

- (1) Mass of trace amount of sample 006 is 40.9mg, sample 007 is 53.4mg, sample 008 is 44.6mg, sample 010 is 71.1mg, sample 014 is 48.1mg, sample 017 is 74.9mg.
- (2) As received, the test portion of 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+A1:2021.
- (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+A1:2021.



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- 2. The declaration of conformity is based on non-binary acceptance decision rules with guard band, and the guard band length parameter is 0. When the measured value falls in the guard band limit, the declaration of conformity is "Conditional PASS" or "Conditional FAIL".

Sample Photo:





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