

**Test Report** No.: SHHL2110056857TY Date: OCT 27, 2021 Page 1 of 14

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

Sample Description : PULL AND PLAY SHAPE SORTE

Sample Quantity : 6 PCS
Style / Item No. : E0349
Country of Origin : CHINA
Country of Destination : GLOBAL
Labeled Age Grading : 12M+
Requested Age Grading : 12M+

Asin No : B00DQRV990

Client reference information : E0349A

Age Group Assessed as Per Age Guideline : 12+MONTHS

Age Group Applied in Testing : 12+MONTHS

Sample Receiving Date : OCT 20, 2021

Testing Period : OCT 20, 2021 TO OCT 27, 2021

<u>Test Requested</u> <u>Result</u>

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 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

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

toy material)

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)

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



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See Result



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

Jesse Thou

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:

<u>Clause</u>	Description	<u>on</u>	Result
4	General r	requirements	
4.1	Material of	cleanliness	<u>Pass</u>
4.7	Edges		<u>Pass</u>
4.8	Points an	d metallic wires	<u>Pass</u>
4.20	Acoustics	3	<u>Pass</u>
5	Toys inte	nded for children under 36 months	
5.1	General r	requirements:	
	5.1a	Small part requirement on toys & removable components	<u>Pass</u>
		(Test method 8.2)	
	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, ch	nains and electrical cable in toys	<u>Pass</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.

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:

- 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.

#### 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:

ClauseDescriptionResult4.1General requirementsPass

## 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:

ClauseDescriptionResult4.1General requirementsPass

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



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## **Test Part Description:**

Specimen No.	SGS Sample ID	Description
SN1	SHA21-228301.001	Red coating
SN2	SHA21-228301.002	Orange coating
SN3	SHA21-228301.003	Yellow coating
SN4	SHA21-228301.004	Lt. Green coating
SN5	SHA21-228301.005	Dk. Green coating
SN6	SHA21-228301.006	Lt. Blue coating
SN7	SHA21-228301.007	Dk. Blue coating
SN8	SHA21-228301.008	Brown coating
SN9	SHA21-228301.009	Black coating
SN10	SHA21-228301.010	White coating
SN11	SHA21-228301.011	Grey coating
SN12	SHA21-228301.012	Transparent coating
SN13	SHA21-228301.013	Cream rubber
SN14	SHA21-228301.014	Red string
SN15	SHA21-228301.015	Red elastic band
SN16	SHA21-228301.016	Natural color wood
SN17	SHA21-228301.017	Natural color plywood

### Remarks:

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

## 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	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



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
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	62	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	84
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>004</u>	<u>005</u>	<u>006</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	55		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>	MDL	<u>007</u>	<u>008</u>	<u>009</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		
Test Item(s)		<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>800</u>	<u>009</u>
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 (M	n)	15000	mg/kg	50	ND		
Soluble Strontium (Sr)		56000	mg/kg	50	ND		
Soluble Zinc (Zn)		46000	mg/kg	50	55		
Soluble Copper (Cu)		7700	mg/kg	50	ND		
Soluble Aluminum (AI)		28130	mg/kg	50	68		
Soluble Nickel (Ni)		930	mg/kg	10	ND		
Soluble Tin (Sn)		180000	mg/kg	3	ND		
Soluble Organic Tin*		12	mg/kg	-	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
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 (M	n)	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 (AI)		28130	mg/kg	50			ND
Soluble Nickel (Ni)		930	mg/kg	10			ND



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Soluble Tin (Sn)		180000	mg/kg	3			ND	
Soluble Organic Tin*		12	mg/kg	-			ND	
Test Item(s)		<u>Limit</u>	<u>Unit</u>	MDL	<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	
Soluble Cobalt (Co)		130	mg/kg	10	ND	ND	ND	
Soluble Manganese (M	ln)	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	704	
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>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 (M	ln)	15000	mg/kg	50	73	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		



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Soluble Aluminum (Al)	28130	) mg/kg	50	ND	ND		
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND		
Soluble Tin (Sn)	18000	0 mg/kg	3	ND	ND		
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>016</u>	<u>017</u>		
Soluble Organic Tin*	12	mg/kg	-	ND	ND		

### Notes:

- (1) Mass of trace amount of sample 001 is 30.0mg, sample 002 is 23.5mg, sample 003 is 31.3mg, sample 004 is 47.6mg, sample 006 is 23.5mg, sample 007 is 49.4mg, sample 012 is 38.8mg.
- (2) As received, the test portion of 005, 008~011 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.

# <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>

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	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	62	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (AI)	28130	mg/kg	50	ND	ND	84
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 Report N	o.: SHHL2110056857TY	Date:	OCT 27,	2021	Page	10 of 14
Test Item(s)	<u>Limi</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
Soluble Lead (Pb)	23	mg/kg	5	ND		ND
Soluble Antimony (Sb)	560	mg/kg	10	ND		ND
Test Item(s)	<u>Limi</u> t	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
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	55		ND
Soluble Nickel (Ni)	930	mg/kg	10	ND		ND
Soluble Tin (Sn)	18000	0 mg/kg	3	ND		ND
Soluble Organic Tin*	12	mg/kg	-	ND		ND
Test Item(s)	<u>Limi</u> t	<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	-	-
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	55		
Soluble Copper (Cu)	7700	mg/kg	50	ND		
Soluble Aluminum (Al)	28130	) mg/kg	50	68		
Soluble Nickel (Ni)	930	mg/kg	10	ND		



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<b>Test Report</b>	rt No.: SHHL2110056857TY		Date: OCT 27, 2021			Page 11 of 14		
Soluble Tin (Sn)		180000	mg/kg	3	ND			
Soluble Organic Tin*		12	mg/kg	-	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	
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 (Mr	n)	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 (AI)		28130	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	
Test Item(s)		<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	
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	704	
Soluble Copper (Cu)		7700	mg/kg	50	ND	ND	ND	



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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
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>015</u>
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</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	73	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 (AI)	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 001 is 30.0mg, sample 002 is 23.5mg, sample 003 is 31.3mg, sample 004 is 47.6mg, sample 006 is 23.5mg, sample 007 is 49.4mg, sample 012 is 38.8mg.
- (3)As received, the test portion of 005, 008~011 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.



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#### Remark:

The test results 001, 006 are taken from report SHA21-194660.004, 002

The test results 002, 009, 010, 012, 013, 014, 017 are taken from report SHA21-207629.013, 009, 012, 014, 006, 003, 001

The test results 003, 004, 008, 015 are taken from report SHA21-205023.010, 018, 019, 028

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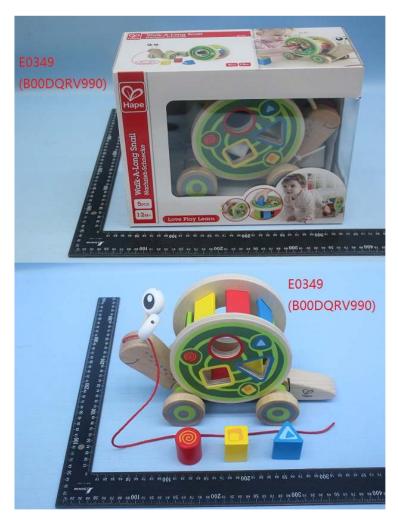
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