

Test Report No.: SHHL2105023347TY Date: MAY 26, 2021 Page 1 of 24

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

Sample Description : STAY-PUT RATTLE SET/ ROTATING MUSIC BOX/

MIGHTY ECHO MICROPHONE/ SHAPE SORTER

XYLOPHONE

Sample Quantity : 20 PCS

Style / Item No. : E0330, E0332, E0337, E0334

Country of Origin : CHINA

Country of Destination : GLOBAL

Labeled Age Grading : E0330:0M+

E0332: 0M+ E0337: 12M+ E0334: 12M+

Requested Age Grading : 0M+, 0M+, 12M+, 12M+

Client Reference Information : E0330A, E0332A, E0337A, E0334B

Age Group Assessed as Per Age Guideline : E0330: 0+ MONTHS

E0332: 0+ MONTHS E0337: 12+ MONTHS

E0334:12+ MONTHS

Age Group Applied in Testing : E0330: 0+ MONTHS

E0332: 0+ MONTHS E0337: 12+ MONTHS E0334:12+ MONTHS

Sample Receiving Date : MAY 14, 2021

Testing Period : MAY 14, 2021 TO MAY 26, 2021

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

EN 71-1: 2014+A1: 2018 – Safety of toys – Part 1: Mechanical and Physical Properties Pass

See Result

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e sgs.china@sgs.com

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



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

<u>Pass</u>

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

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 **Pass**

scrapped-off toy material)

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

Pass

toy material)

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Wallace Lui 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:

Clause	Descrip	<u>tion</u>	Result
4	General	requirements	
4.1	Material	cleanliness	<u>Pass</u>
4.7	Edges		<u>Pass</u>
4.8	Points a	and metallic wires	<u>Pass</u>
4.10	Parts m	oving against each other:	
	4.10.2	Driving mechanisms	<u>Pass</u>
4.20	Acoustic	cs	<u>Pass</u>
5	Toys int	ended for children under 36 months	
5.1	General	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>
	5.1f	The casing of toys intended for children too young to sit up unaided	<u>Pass</u>
5.4	Cords, o	chains and electrical cable in toys	<u>Pass</u>
5.8	Shape a	and size of certain toys	<u>Pass</u>
5.13	Suction	cups	<u>Pass</u>
7	Warning	gs, markings and instructions for use	
7.1	General	Requirements	<u>Pass</u>
	Note: Pl	lease note that for assessing the visibility and legibility of warnings,	

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



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For more details, see EN 71-1.

7.14 Acoustics Pass

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:

ITEM E0334

	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

Summary table:

ITEM E0330, E0332, E0337

, ,	Observation Result	Location
Washing/Cleaning instruction	Not applicable	1
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:

ClauseDescriptionResult4.1General requirementsPass

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:

ClauseDescriptionResult4.1General requirementsPass

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

Test Part Description:

SN1 SHA21-099720.001 Green ABS SN2 SHA21-099720.002 Orange ABS SN3 SHA21-099720.003 Blue ABS SN4 SHA21-099720.004 Green Silicone rubber SN5 SHA21-099720.005 Orange Silicone rubber SN6 SHA21-099720.006 Blue Silicone rubber SN7 SHA21-099720.007 White Silicone rubber SN8 SHA21-099720.008 Colorful coating SN9 SHA21-099720.009 Natural color wood SN10 SHA21-099720.010 Blue HDPE SN11 SHA21-099720.011 Red ABS SN12 SHA21-099720.012 Black coating on red plastic SN13 SHA21-099720.013 Transparent ABS SN14 SHA21-099720.015 Red EVA SN15 SHA21-099720.016 Transparent/Brown coating on plywood	Specimen No.	SGS Sample ID	Description
SN3 SHA21-099720.003 Blue ABS SN4 SHA21-099720.004 Green Silicone rubber SN5 SHA21-099720.005 Orange Silicone rubber SN6 SHA21-099720.006 Blue Silicone rubber SN7 SHA21-099720.007 White Silicone rubber SN8 SHA21-099720.008 Colorful coating SN9 SHA21-099720.009 Natural color wood SN10 SHA21-099720.010 Blue HDPE SN11 SHA21-099720.011 Red ABS SN12 SHA21-099720.012 Black coating on red plastic SN13 SHA21-099720.013 Transparent ABS SN14 SHA21-099720.014 Colorful coating on red plastic SN15 SHA21-099720.015 Red EVA SN16 SHA21-099720.016 Transparent/Brown coating on plywood	SN1	SHA21-099720.001	Green ABS
SN4 SHA21-099720.004 Green Silicone rubber SN5 SHA21-099720.005 Orange Silicone rubber SN6 SHA21-099720.006 Blue Silicone rubber SN7 SHA21-099720.007 White Silicone rubber SN8 SHA21-099720.008 Colorful coating SN9 SHA21-099720.009 Natural color wood SN10 SHA21-099720.010 Blue HDPE SN11 SHA21-099720.011 Red ABS SN12 SHA21-099720.012 Black coating on red plastic SN13 SHA21-099720.013 Transparent ABS SN14 SHA21-099720.014 Colorful coating on red plastic SN15 SHA21-099720.015 Red EVA SN16 SHA21-099720.016 Transparent/Brown coating on plywood	SN2	SHA21-099720.002	Orange ABS
SN5 SHA21-099720.005 Orange Silicone rubber SN6 SHA21-099720.006 Blue Silicone rubber SN7 SHA21-099720.007 White Silicone rubber SN8 SHA21-099720.008 Colorful coating SN9 SHA21-099720.009 Natural color wood SN10 SHA21-099720.010 Blue HDPE SN11 SHA21-099720.011 Red ABS SN12 SHA21-099720.012 Black coating on red plastic SN13 SHA21-099720.013 Transparent ABS SN14 SHA21-099720.014 Colorful coating on red plastic SN15 SHA21-099720.015 Red EVA SN16 SHA21-099720.016 Transparent/Brown coating on plywood	SN3	SHA21-099720.003	Blue ABS
SN6 SHA21-099720.006 Blue Silicone rubber SN7 SHA21-099720.007 White Silicone rubber SN8 SHA21-099720.008 Colorful coating SN9 SHA21-099720.009 Natural color wood SN10 SHA21-099720.010 Blue HDPE SN11 SHA21-099720.011 Red ABS SN12 SHA21-099720.012 Black coating on red plastic SN13 SHA21-099720.013 Transparent ABS SN14 SHA21-099720.014 Colorful coating on red plastic SN15 SHA21-099720.015 Red EVA SN16 SHA21-099720.016 Transparent/Brown coating on plywood	SN4	SHA21-099720.004	Green Silicone rubber
SN7 SHA21-099720.007 White Silicone rubber SN8 SHA21-099720.008 Colorful coating SN9 SHA21-099720.009 Natural color wood SN10 SHA21-099720.010 Blue HDPE SN11 SHA21-099720.011 Red ABS SN12 SHA21-099720.012 Black coating on red plastic SN13 SHA21-099720.013 Transparent ABS SN14 SHA21-099720.014 Colorful coating on red plastic SN15 SHA21-099720.015 Red EVA SN16 SHA21-099720.016 Transparent/Brown coating on plywood	SN5	SHA21-099720.005	Orange Silicone rubber
SN8 SHA21-099720.008 Colorful coating SN9 SHA21-099720.009 Natural color wood SN10 SHA21-099720.010 Blue HDPE SN11 SHA21-099720.011 Red ABS SN12 SHA21-099720.012 Black coating on red plastic SN13 SHA21-099720.013 Transparent ABS SN14 SHA21-099720.014 Colorful coating on red plastic SN15 SHA21-099720.015 Red EVA SN16 SHA21-099720.016 Transparent/Brown coating on plywood	SN6	SHA21-099720.006	Blue Silicone rubber
SN9 SHA21-099720.009 Natural color wood SN10 SHA21-099720.010 Blue HDPE SN11 SHA21-099720.011 Red ABS SN12 SHA21-099720.012 Black coating on red plastic SN13 SHA21-099720.013 Transparent ABS SN14 SHA21-099720.014 Colorful coating on red plastic SN15 SHA21-099720.015 Red EVA SN16 SHA21-099720.016 Transparent/Brown coating on plywood	SN7	SHA21-099720.007	White Silicone rubber
SN10 SHA21-099720.010 Blue HDPE SN11 SHA21-099720.011 Red ABS SN12 SHA21-099720.012 Black coating on red plastic SN13 SHA21-099720.013 Transparent ABS SN14 SHA21-099720.014 Colorful coating on red plastic SN15 SHA21-099720.015 Red EVA SN16 SHA21-099720.016 Transparent/Brown coating on plywood	SN8	SHA21-099720.008	Colorful coating
SN11 SHA21-099720.011 Red ABS SN12 SHA21-099720.012 Black coating on red plastic SN13 SHA21-099720.013 Transparent ABS SN14 SHA21-099720.014 Colorful coating on red plastic SN15 SHA21-099720.015 Red EVA SN16 SHA21-099720.016 Transparent/Brown coating on plywood	SN9	SHA21-099720.009	Natural color wood
SN12 SHA21-099720.012 Black coating on red plastic SN13 SHA21-099720.013 Transparent ABS SN14 SHA21-099720.014 Colorful coating on red plastic SN15 SHA21-099720.015 Red EVA SN16 SHA21-099720.016 Transparent/Brown coating on plywood	SN10	SHA21-099720.010	Blue HDPE
SN13 SHA21-099720.013 Transparent ABS SN14 SHA21-099720.014 Colorful coating on red plastic SN15 SHA21-099720.015 Red EVA SN16 SHA21-099720.016 Transparent/Brown coating on plywood	SN11	SHA21-099720.011	Red ABS
SN14 SHA21-099720.014 Colorful coating on red plastic SN15 SHA21-099720.015 Red EVA SN16 SHA21-099720.016 Transparent/Brown coating on plywood	SN12	SHA21-099720.012	Black coating on red plastic
SN15 SHA21-099720.015 Red EVA SN16 SHA21-099720.016 Transparent/Brown coating on plywood	SN13	SHA21-099720.013	Transparent ABS
SN16 SHA21-099720.016 Transparent/Brown coating on plywood	SN14	SHA21-099720.014	Colorful coating on red plastic
1	SN15	SHA21-099720.015	Red EVA
CN17 CLIA 24 000720 017 Colorful conting on motal	SN16	SHA21-099720.016	Transparent/Brown coating on plywood
SIN 17 SHAZ 1-099720.0 17 Colonial coaling on metal	SN17	SHA21-099720.017	Colorful coating on metal
SN18 SHA21-099720.018 Blue webbing	SN18	SHA21-099720.018	Blue webbing



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SN19 SHA21-099720.019 White PA **SN20** SHA21-099720.020 White PC **SN21** SHA21-099720.021 Black Rubber

SN22 SHA21-099720.022 Natural color plywood

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	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 (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



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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 (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>004</u>	<u>005</u>	<u>006</u>
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
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



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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)	Limit	<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	-
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	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
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>	<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
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



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Test Report	No.: SHHL21050233	47TY	Date:	MAY 26, 2	2021	Page	9 of 24
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>	<u>MDL</u>	<u>016</u>	<u>017</u>	<u>018</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 (Mr	n)	15000	mg/kg	50		ND	ND
Test Item(s)		<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>016</u>	<u>017</u>	<u>018</u>
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
Test Item(s)		<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



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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>022</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		
Test Item(s)		<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>022</u>		
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 (Al)		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		

Notes:

- (1) Mass of trace amount of sample 017 is 29.4 mg.
- (2) As received, the test portion of 008,012,014,016 are 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,



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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	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 (AI)	70000	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
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>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



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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 (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)		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>007</u>	<u>008</u>	<u>009</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 (Mi	n)	15000	mg/kg	50	ND		ND
Soluble Strontium (Sr)		56000	mg/kg	50	ND		ND
Test Item(s)		<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Soluble Zinc (Zn)		46000	mg/kg	50	ND		58
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
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	-
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	



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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	n)	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)		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	
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
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
Test Item(s)		<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>015</u>
Soluble Cobalt (Co)		130	mg/kg	10	ND		ND
Soluble Manganese (M	n)	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)		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>	MDL	<u>016</u>	<u>017</u>	<u>018</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)	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
Test Item(s)	<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	<u>075</u> 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
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>019</u>	<u>020</u>	<u>021</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 (AI)	70000	mg/kg	50	ND	ND	ND



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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	<u>Unit</u>	<u>MDL</u>	<u>022</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 (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			

Notes:

- (1) Mass of trace amount of sample 017 is 47.8 mg.
- (2) As received, the test portion of 008,012,014,016 are 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.

<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
0.053	mg/kg	0.025	ND	ND	ND
23	mg/kg	5	ND	ND	ND
560	mg/kg	10	ND	ND	ND
47	mg/kg	10	ND	ND	ND
18750	mg/kg	50	ND	ND	ND
17	mg/kg	5	ND	ND	ND
460	mg/kg	5	ND	ND	ND
94	mg/kg	10	ND	ND	ND
460	mg/kg	10	ND	ND	ND
15000	mg/kg	50	ND	ND	ND
130	mg/kg	10	ND	ND	ND
15000	mg/kg	50	ND	ND	ND
56000	mg/kg	50	ND	ND	ND
46000	mg/kg	50	ND	ND	ND
7700	mg/kg	50	ND	ND	ND
28130	mg/kg	50	ND	ND	ND
930	mg/kg	10	ND	ND	ND
180000	mg/kg	3	ND	ND	ND
12	mg/kg	-	ND	ND	ND
<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
0.053	mg/kg	0.025	ND	ND	ND
23	mg/kg	5	ND	ND	ND
560	mg/kg	10	ND	ND	ND
47	mg/kg	10	ND	ND	ND
18750	mg/kg	50	ND	ND	ND
17	mg/kg	5	ND	ND	ND
460	mg/kg	5	ND	ND	ND
94	mg/kg	10	ND	ND	ND
460	mg/kg	10	ND	ND	ND
15000	mg/kg	50	ND	ND	ND
130	mg/kg	10	ND	ND	ND
15000	mg/kg	50	ND	ND	ND
	0.053 23 560 47 18750 17 460 94 460 15000 56000 46000 7700 28130 930 180000 12 Limit 0.053 23 560 47 18750 17 460 94 460 15000 130	0.053 mg/kg 23 mg/kg 560 mg/kg 47 mg/kg 18750 mg/kg 17 mg/kg 460 mg/kg 94 mg/kg 15000 mg/kg 15000 mg/kg 15000 mg/kg 28130 mg/kg 28130 mg/kg 28130 mg/kg 28130 mg/kg 28130 mg/kg 30 mg/kg 46000 mg/kg 7700 mg/kg 28130 mg/kg 28130 mg/kg 30 mg/kg 12 mg/kg 180000 mg/kg 12 mg/kg 180000 mg/kg 10 mg/kg 11 mg/kg 12 mg/kg 13 mg/kg 15000 mg/kg 17 mg/kg 18750 mg/kg 18750 mg/kg 18750 mg/kg 18750 mg/kg 18750 mg/kg 17 mg/kg 18750 mg/kg 18750 mg/kg 17 mg/kg 18750 mg/kg 18750 mg/kg 18750 mg/kg 18750 mg/kg 18750 mg/kg	0.053 mg/kg 0.025 23 mg/kg 5 560 mg/kg 10 47 mg/kg 10 18750 mg/kg 50 17 mg/kg 5 460 mg/kg 5 94 mg/kg 10 460 mg/kg 10 15000 mg/kg 50 130 mg/kg 50 56000 mg/kg 50 28130 mg/kg 50 28130 mg/kg 50 28130 mg/kg 10 180000 mg/kg 3 12 mg/kg - Limit Unit MDL 0.053 mg/kg 5 560 mg/kg 10 47 mg/kg 10 47 mg/kg 5 460 mg/kg 5 94 mg/kg 5 94 mg/kg 10 460 mg/kg 10 460 <td>0.053 mg/kg 0.025 ND 23 mg/kg 5 ND 560 mg/kg 10 ND 47 mg/kg 10 ND 18750 mg/kg 50 ND 17 mg/kg 5 ND 460 mg/kg 5 ND 94 mg/kg 5 ND 94 mg/kg 10 ND 460 mg/kg 50 ND 15000 mg/kg 50 ND 15000 mg/kg 50 ND 15000 mg/kg 50 ND 56000 mg/kg 50 ND 7700 mg/kg 50 ND 180000 mg/kg 10 ND 180000 mg/kg 3 ND 12 mg/kg 0.025 ND 23 mg/kg 5 ND 560 mg/kg 5</td> <td>0.053 mg/kg 0.025 ND ND 23 mg/kg 5 ND ND 560 mg/kg 10 ND ND 47 mg/kg 10 ND ND 18750 mg/kg 50 ND ND 17 mg/kg 5 ND ND 460 mg/kg 5 ND ND 94 mg/kg 10 ND ND 460 mg/kg 50 ND ND 15000 mg/kg 50 ND ND 15000 mg/kg 50 ND ND 15000 mg/kg 50 ND ND 46000 mg/kg 50 ND ND 7700 mg/kg 50 ND ND 180000 mg/kg 3 ND ND 1880000 mg/kg 3 ND ND 12 mg/kg <t< td=""></t<></td>	0.053 mg/kg 0.025 ND 23 mg/kg 5 ND 560 mg/kg 10 ND 47 mg/kg 10 ND 18750 mg/kg 50 ND 17 mg/kg 5 ND 460 mg/kg 5 ND 94 mg/kg 5 ND 94 mg/kg 10 ND 460 mg/kg 50 ND 15000 mg/kg 50 ND 15000 mg/kg 50 ND 15000 mg/kg 50 ND 56000 mg/kg 50 ND 7700 mg/kg 50 ND 180000 mg/kg 10 ND 180000 mg/kg 3 ND 12 mg/kg 0.025 ND 23 mg/kg 5 ND 560 mg/kg 5	0.053 mg/kg 0.025 ND ND 23 mg/kg 5 ND ND 560 mg/kg 10 ND ND 47 mg/kg 10 ND ND 18750 mg/kg 50 ND ND 17 mg/kg 5 ND ND 460 mg/kg 5 ND ND 94 mg/kg 10 ND ND 460 mg/kg 50 ND ND 15000 mg/kg 50 ND ND 15000 mg/kg 50 ND ND 15000 mg/kg 50 ND ND 46000 mg/kg 50 ND ND 7700 mg/kg 50 ND ND 180000 mg/kg 3 ND ND 1880000 mg/kg 3 ND ND 12 mg/kg <t< td=""></t<>



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Test Report	No.: SHHL2105023	347TY	Date: MAY 26, 2021		Page 17 of 24		
Test Item(s)		<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
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>007</u>	<u>008</u>	<u>009</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 (Mr	٦)	15000	mg/kg	50	ND		ND
Soluble Strontium (Sr)		56000	mg/kg	50	ND		ND
Soluble Zinc (Zn)		46000	mg/kg	50	ND		58
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>	<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	-
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	



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Test Report	No.: SHHL210502334	7TY	Date:	MAY 26, 2	2021	Page 18 of 24	
Soluble Selenium (Se)		460	mg/kg	10	ND	ND	
Test Item(s)		<u>Limit</u>	<u>Unit</u>	MDL	<u>010</u>	<u>011</u>	012
Soluble Boron (B)		15000	mg/kg	50	ND	ND	
Soluble Cobalt (Co)		130	mg/kg	10	ND	ND	
Soluble Manganese (Mr	1)	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	
Toot Itom(a)		Limit	Lloit	MDI	012	014	015
Test Item(s)	(0-1/1)	<u>Limit</u>	<u>Unit</u>	MDL 0.005	<u>013</u>	<u>014</u>	<u>015</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 19750	mg/kg	10 50	ND		ND
Soluble Barium (Ba)		18750 17	mg/kg	50 5	ND ND		ND ND
Soluble Cadmium (Cd)	Or III)	460	mg/kg	5	ND ND		ND
Soluble Chromium (III) (Soluble Mercury (Hg)	Of III)	94	mg/kg	5 10	ND ND	-	ND
Soluble Selenium (Se)		460	mg/kg mg/kg	10	ND		ND
Soluble Boron (B)		15000	mg/kg	50	ND		ND
Soluble Cobalt (Co)		13000	mg/kg	10	ND		ND
Soluble Cobait (Co) Soluble Manganese (Mr	1)	15000	mg/kg	50	ND		ND
Soluble Strontium (Sr)	1)	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
Test Item(s)		<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>016</u>	<u>017</u>	<u>018</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



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Test Report	No.: SHHL210502334	7TY	Date: MAY 26, 2021			Page 19 of 24	
Soluble Barium (Ba)		18750	mg/kg	50		ND	ND
Soluble Cadmium (Cd)		17	mg/kg	5		ND	ND
Test Item(s)		<u>Limit</u>	<u>Unit</u>	MDL	<u>016</u>	<u>017</u>	<u>018</u>
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	1)	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 (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
					- / -		
Test Item(s)		<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	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 (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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t (86) 400 960 9661 f (86-21) 6115 6899 f (86-21) 6115 6899



Test Report	No.: SHHL21050233	347TY	Date: MAY 26, 2021			Page 20 of 24
Test Item(s)		<u>Limit</u>	<u>Unit</u>	MDL	<u>022</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>022</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 (Mi	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	

Notes:

- (1) Mass of trace amount of sample 017 is 29.6 mg.
- (2) As received, the test portion of 008,012,014,016 are 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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Sample Photo:





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