

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

Sample Description : DINO RAILWAY ADVENTURE SET
 Sample Quantity : 6 PCS
 Style / Item No. : E3795
 Country of Origin : CHINA
 Country of Destination : GLOBAL
 Labeled Age Grading : 3-8 YEARS
 Requested Age Grading : 3 Y- 8 Y
 Client Reference Information : E3795A

 Source of Sample : SENT BY CLIENT.
 Age Group Assessed as Per Age Guideline : 3 YEARS +
 Age Group Applied in Testing : 3 YEARS +
 Sample Receiving Date : JUL. 21, 2023
 Further Information Date : JUL. 24, 2023
 Testing Period : JUL. 21, 2023 TO JUL. 31, 2023

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 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	See Result
EN 71-2: 2020 – Safety of toys – Part 2: Flammability	Pass
COMMISSION IMPLEMENTING DECISION (EU) 2023/740 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)	Pass

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

Jessie Zhou



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>	<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>
	(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>
7	Warnings, markings and instructions for use	
7.1	General Requirements	<u>Pass</u>
	Note: Please note that for assessing the visibility and legibility of warnings, CEN has introduced good practice in the informative Annex A.33 by addressing the following aspects:	
	a) Emphasising the warning	
	b) Contrast, background and colours	
	c) Reflecting surfaces and obscuring material	
	d) Font type	
	e) Font size	
	f) Logical direction of text	
	For more details, see EN 71-1.	
7.2	Toys not intended for children under 36 months	<u>Pass</u>
	(Remark: The toy contains small part. It is acceptable because appropriate warning is found on packaging.)	<u>See Remark</u>

Only English warnings were checked for the clause 7. According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.

N/A = Not Applicable



LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO INFORMATIVE ANNEX A.26 AND A.33 OF THE EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-1: 2014+A1: 2018 AND THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS

Summary table:

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

Note:

1. According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. According to the GUIDANCE DOCUMENT ON THE APPLICATION OF DIRECTIVE 2009/48/EC ON THE SAFETY OF TOYS, manufacturer shall not label "surface washing" on textile toys which, under the TSD, need to be soak washable.
2. CE marking should be visible from outside the packaging and its height must be at least 5mm.
3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
4. Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

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
4.1	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 Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA23-0111752-0001.C001	White coating
SN2	A2	SHA23-0111752-0001.C002	Black coating
SN3	A3	SHA23-0111752-0001.C003	Translucent coating
SN4	A4	SHA23-0111752-0001.C004	Purple coating
SN5	A5	SHA23-0111752-0001.C005	Dark purple coating
SN6	A6	SHA23-0111752-0001.C006	Aqua coating
SN7	A7	SHA23-0111752-0001.C007	Dark purple coating
SN8	A8	SHA23-0111752-0001.C008	Dark blue-green coating
SN9	A9	SHA23-0111752-0001.C009	Green coating
SN10	A10	SHA23-0111752-0001.C010	Dark orange coating
SN11	A11	SHA23-0111752-0001.C011	Orange-red coating
SN12	A12	SHA23-0111752-0001.C012	Dark red coating
SN13	A13	SHA23-0111752-0001.C013	Blue coating
SN14	A14	SHA23-0111752-0001.C014	Red coating
SN15	A15	SHA23-0111752-0001.C015	Silvery coating
SN16	A16	SHA23-0111752-0001.C016	Orange coating
SN17	A17	SHA23-0111752-0001.C017	Light blue coating
SN18	A18	SHA23-0111752-0001.C018	Light green coating
SN19	A19	SHA23-0111752-0001.C019	Light green coating
SN20	A20	SHA23-0111752-0001.C020	Blue-green coating
SN21	A21	SHA23-0111752-0001.C021	Colorful coating
SN22	A22	SHA23-0111752-0001.C022	White ABS
SN23	A23	SHA23-0111752-0001.C023	Dark grey ABS
SN24	A24	SHA23-0111752-0001.C024	Grey ABS
SN25	A25	SHA23-0111752-0001.C025	White PP
SN26	A26	SHA23-0111752-0001.C026	Grey PP wheel
SN27	A27	SHA23-0111752-0001.C027	Brown HIPS
SN28	A28	SHA23-0111752-0001.C028	Grey-green plastic
SN29	A29	SHA23-0111752-0001.C029	Pink plastic
SN30	A30	SHA23-0111752-0001.C030	Black plastic
SN31	A31	SHA23-0111752-0001.C031	Green ABS
SN32	A32	SHA23-0111752-0001.C032	Colorful paper
SN33	A33	SHA23-0111752-0001.C033	Natural color solid wood

Remarks:

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



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COMMISSION IMPLEMENTING DECISION (EU) 2023/740 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.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
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)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	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	313	208	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
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
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)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	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	70	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	324	ND	181
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
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9*
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)(CrIII)	460	mg/kg	5	ND	ND	-
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	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	79	172	-
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	-
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A12
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)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	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	72	54	79
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
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A13	A14*	A15*
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)(CrIII)	460	mg/kg	5	ND	-	-



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Test Item(s)	Limit	Unit(s)	MDL	A13	A14*	A15*
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	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	67	-	-
Soluble Nickel(Ni)	930	mg/kg	10	ND	-	-
Soluble Tin(Sn)	180000	mg/kg	3	ND	-	-
Soluble Organic Tin*	12	mg/kg	-	ND	-	-
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
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)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	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	181	119	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
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A19	A20*	A21
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)(CrIII)	460	mg/kg	5	ND	-	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	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 Item(s)	Limit	Unit(s)	MDL	A19	A20*	A21
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	-	472
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
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A22	A23	A24
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)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	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
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A25	A26	A27
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)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	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 Item(s)	Limit	Unit(s)	MDL	A25	A26	A27
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A28	A29	A30
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)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	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
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A31	A32	A33
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)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	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
Conclusion				Pass	Pass	Pass

Notes:

(1) According to the Commission Implementing Decision (EU) 2023/740 of April 5, 2023, published in the



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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) According to Chapter of 10.1.2 of EN 71-3:2019+A1:2021, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(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.

(4) Mass of trace amount of sample A2 is 48.4mg, sample A4 is 45.5mg, sample A5 is 15.5mg, sample A6 is 30.2mg, sample A7 is 29.5mg, sample A8 is 31.7mg, sample A10 is 35.8mg, sample A11 is 41.9mg, sample A12 is 45.7mg, sample A13 is 27.6mg, sample A16 is 17.4mg, sample A17 is 54.3mg, sample A18 is 44.1mg, sample A19 is 44.1mg, sample A21 is 49.5mg, sample A31 is 92.2mg.

(5) ●As received, the test portion 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.

Remark:

The test results A1 are taken from report SHA23-0052292-0001.C006(A6)

The test results A2 are taken from report SHA23-0052292-0001.C005(A5)

The test results A3 are taken from report SHA23-0036794-0001.C011(A11)

The test results A13 are taken from report SHA23-0088286-0001.C006(A6)

The test results A16 are taken from report SHA23-0038722-0001.C002(A2)

The test results A17 are taken from report SHA23-0052292-0001.C008(A8)

The test results A18 are taken from report SHA23-0052292-0001.C001(A1)

The test results A19 are taken from report SHA23-0052292-0001.C001(A1)

The test results A22 are taken from report SHA23-0052292-0001.C023(A23)

The test results A24 are taken from report SHA23-0052292-0001.C025(A25)

The test results A26 are taken from report SHA23-0052292-0001.C026(A26)

The test results A27 are taken from report SHA23-0052292-0001.C031(A31)

The test results A30 are taken from report SHA23-0038722-0001.C018(A18)

The test results A33 are taken from report SHA23-0110253-0001.C024(A24)

The test results A20 are taken from report SHA23-0052292-0001.C015(A15)

The test results A14 are taken from report SHA23-0022957-0001.C001(A1)

The test results A9 are taken from report SHA23-0022957-0001.C002(A2)

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2. The declaration of conformity is based on acceptance limits chosen based on simple acceptance ($w = 0, AL = TL$).

Statements of conformity are reported as:

Passed - The measured values were observed in tolerance at the points tested.

Failed - One or more measured values were observed out of tolerance at the points tested.

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