

Report No.: 0180107965a 025

Client: Chiara Lillo

Contact Information: via Nerva 115,Napoli,Campania,Italy,80126

Buyer's name: Chiara Lillo

Manufacturer's name: YIWU HOYE CRAFTS CO.,LTD

Test item(s): Toy

Identification/ Model No(s): Wooden Toys

Multifunctional Abacus ET-01

Dog Harmmer Game ET-08

Multifunctional Wisdom Box ET-15

Dinosaur Harmmer Game ET-18

Radish Fishing Game ET-22

Changing Shape Puzzle Blocks ET-48

Treading String Game ET-58

Sample Receiving date: 2019-4-01

Testing Period: 2019-4-01 to 2019-4-12

Delivery condition: Apparent good, Samples tested as received

Test Specification:	Test result:
Customer's requirement:	
1. EN 71-3:2013+A3:2018 Migration of 19 Elements	PASS
2. *EN 71-1:2014+A1:2018 Mechanical and physical properties	PASS
3. *2009/48/EC CE marking	PASS
4. *2009/48/EC Labeling Requirement (Importer/ Manufacturer Mark, Product Identification, Washing/ Cleaning instruction)	Please refer to result page
5. *EN 71-2:2011+A1:2014 Flammability	PASS

Products

Other information:

Country of Origin: China

Packaging provided: Yes

The provided age grade of the item: Over 36 months.

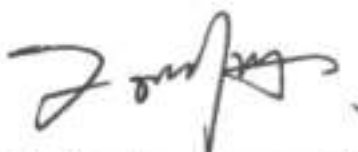
The appropriate age grade of the item : A001 A002 A003 A004 A005 A006 A007

The item was tested over 36 months.

*Test Location: TÜV Rheinland (Shanghai) Co., Ltd.

TÜV Building I, No.177, Lane 777, West Guangzhong Road Jing'an District, Shanghai, China

For and on behalf of
TÜV Rheinland/CCIC (Ningbo) Co., Ltd.



Xie Xianqiang / Department Manager

2019-4-12

Date

Name/Position

Test result is drawn according to the kind and extent of tests performed.

This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

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Material List:

Item: Wooden Toys

 multifunctional abacus

 dog hammer game

 multifunctional wisdom box

 dinosaur hammer game

 radish fishing game

 changing shape game

 treading string game

Material No.	Material	Color	Location
A001	Whole Product	Multi-color	multifunctional abacus
A002	Whole Product	Multi-color	dog hammer game
A003	Whole Product	Multi-color	multifunctional wisdom box
A004	Whole Product	Multi-color	dinosaur hammer game
A005	Whole Product	Multi-color	radish fishing game
A006	Whole Product	Multi-color	changing shape puzzle
A007	Whole Product	Multi-color	treading string game

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M001	Coating	transparent	varnish
M002	Coating	blue	abacus beads
M003	Coating	green	abacus beads
M004	Coating	yellow	abacus beads
M005	Coating	orange	abacus beads
M006	Coating	purple	abacus beads
M007	Coating	orange	abacus board
M008	Coating	multi	multifunctional abacus
M009	Coating	pink	fish and worm blocks
M010	Coating	red	fish and worm blocks
M011	Coating	purple	fish and worm blocks
M012	Coating	blue	fish and worm blocks
M013	Coating	yellow	fish and worm blocks
M014	printing	multi	radish fishing game
M015	Coating	red	radish
M016	Coating	green	puzzle blocks
M017	Coating	purple	puzzle blocks
M018	Coating	old orange	puzzle blocks
M019	Coating	dark blue	puzzle blocks
M020	Coating	red	puzzle blocks
M021	Coating	blue	puzzle blocks
M022	Coating	yellow	multifunctional wisdom blocks
M023	Coating	green	multifunctional wisdom blocks
M024	Coating	blue	multifunctional wisdom blocks
M025	Coating	orange	multifunctional wisdom blocks
M026	Coating	red	multifunctional wisdom blocks
M027	Coating	light pink	treating string blocks
M028	Coating	red	treating string blocks
M029	Coating	green	treating string blocks
M030	Coating	macaron yellow	stacking blocks
M031	Coating	macaron pink	stacking blocks
M032	Coating	macaron blue	stacking blocks

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M033	Coating	macaron green	stacking blocks
M034	Coating	purple	multifunctional wisdom blocks
M035	Coating	dark blue	multifunctional wisdom blocks
M036	Coating	dark pink	hammer game blocks
M037	Coating	yellow	hammer game blocks
M038	Coating	grey	hammer game blocks
M039	Coating	green	hammer game blocks
M040	Coating	blue	hammer game blocks
M041	printing	multi	hammer game board

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1. EN 71-3:2013+A3:2018 Migration of 19 Elements

Test Method: EN 71-3:2013+A3:2018, for inorganic elements, analyzed by ICP-OES or ICP-MS.

Test Result :
3) For scraped-off toy materials:

				Test No.	T001	T002	T003
				Material No.	M001	M002	M003
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	n.d.	40.7	n.d.	n.d.
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	n.d.
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	n.d.
Barium (Ba)	mg/kg	2.5	18,750	n.d.	n.d.	n.d.	n.d.
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	n.d.
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	n.d.
Chromium (Cr)	mg/kg	0.15	-	n.d.	n.d.	n.d.	n.d.
Chromium III (Cr(III))§	mg/kg	0.15	460	-	-	-	-
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	-	-	-	-
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	n.d.
Copper (Cu)	mg/kg	2.5	7,700	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	n.d.
Manganese (Mn)	mg/kg	2.5	15,000	n.d.	4.1	n.d.	n.d.
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	n.d.
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.	n.d.
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	n.d.
Strontium (Sr)	mg/kg	2.5	56,000	3.8	26.5	n.d.	n.d.
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	n.d.
Organic Tin [^]	mg/kg	0.2	12	-	-	-	-
Zinc (Zn)	mg/kg	10	46,000	n.d.	n.d.	n.d.	n.d.

Abbreviation: n.d. = Not Detected (< RL)
 RL = Reporting Limit
 mg/kg denotes milligram per kilogram
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3) For scraped-off toy materials:

				Test No.	T004	T005	T006
				Material No.	M005	M006	M007
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	
Aluminium (Al)	mg/kg	10	70,000	n.d.	n.d.	n.d.	
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	18,750	n.d.	n.d.	n.d.	
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	
Chromium (Cr)	mg/kg	0.15	-	n.d.	n.d.	n.d.	
Chromium III (Cr(III))§	mg/kg	0.15	460	-	-	-	
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	-	-	-	
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	
Copper (Cu)	mg/kg	2.5	7,700	n.d.	n.d.	n.d.	
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	15,000	n.d.	n.d.	n.d.	
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	56,000	n.d.	n.d.	n.d.	
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	12	-	-	-	
Zinc (Zn)	mg/kg	10	46,000	n.d.	n.d.	n.d.	

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3) For scraped-off toy materials:

				Test No.	T007	T008	T009
				Material No.	M008	M009	M010
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	n.d.	n.d.	n.d.	n.d.
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	n.d.
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	n.d.
Barium (Ba)	mg/kg	2.5	18,750	n.d.	21.0	n.d.	n.d.
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	n.d.
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	n.d.
Chromium (Cr)	mg/kg	0.15	-	n.d.	n.d.	n.d.	n.d.
Chromium III (Cr(III))§	mg/kg	0.15	460	-	-	-	-
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	-	-	-	-
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	n.d.
Copper (Cu)	mg/kg	2.5	7,700	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	n.d.
Manganese (Mn)	mg/kg	2.5	15,000	n.d.	117	n.d.	n.d.
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	n.d.
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.	n.d.
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	n.d.
Strontium (Sr)	mg/kg	2.5	56,000	n.d.	5.1	5.3	n.d.
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	n.d.
Organic Tin [^]	mg/kg	0.2	12	-	-	-	-
Zinc (Zn)	mg/kg	10	46,000	n.d.	n.d.	n.d.	n.d.

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3) For scraped-off toy materials:

				Test No.	T010	T011	T012
				Material No.	M011	M012	M013
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	125	31.4	133	
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	18,750	4.2	10.4	3.9	
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	
Chromium (Cr)	mg/kg	0.15	-	0.32	0.41	0.22	
Chromium III (Cr(III))§	mg/kg	0.15	460	0.32(*1)	0.41(*1)	0.22(*1)	
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	n.d.(*1)	n.d.(*1)	n.d.(*1)	
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	
Copper (Cu)	mg/kg	2.5	7,700	n.d.	n.d.	n.d.	
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	15,000	16.5	12.3	9.1	
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	56,000	19.8	4.6	12.4	
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	12	-	-	-	
Zinc (Zn)	mg/kg	10	46,000	311	90.1	243	

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3) For scraped-off toy materials:

				Test No.	T013	T014	T015
				Material No.	M014	M016	M017
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	109	91.8	n.d.	n.d.
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	n.d.
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	n.d.
Barium (Ba)	mg/kg	2.5	18,750	2.6	16.9	15.3	15.3
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	n.d.
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	n.d.
Chromium (Cr)	mg/kg	0.15	-	1.2	0.36	n.d.	n.d.
Chromium III (Cr(III))§	mg/kg	0.15	460	1.2(*1)	0.36(*1)	-	-
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	n.d.(*1)	n.d.(*1)	-	-
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	n.d.
Copper (Cu)	mg/kg	2.5	7,700	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	n.d.
Manganese (Mn)	mg/kg	2.5	15,000	10.7	12.3	44.0	44.0
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	n.d.
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.	n.d.
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	n.d.
Strontium (Sr)	mg/kg	2.5	56,000	23.8	451	2.7	2.7
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	n.d.
Organic Tin [^]	mg/kg	0.2	12	-	-	-	-
Zinc (Zn)	mg/kg	10	46,000	274	319	n.d.	n.d.

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3) For scraped-off toy materials:

				Test No.	T016	T017	T018
				Material No.	M018	M020	M021
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	97.2	13.7	n.d.	n.d.
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	n.d.
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	n.d.
Barium (Ba)	mg/kg	2.5	18,750	14.6	13.0	n.d.	n.d.
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	n.d.
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	n.d.
Chromium (Cr)	mg/kg	0.15	-	0.22	n.d.	n.d.	n.d.
Chromium III (Cr(III))§	mg/kg	0.15	460	0.22(*1)	-	-	-
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	n.d.(*1)	-	-	-
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	n.d.
Copper (Cu)	mg/kg	2.5	7,700	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	n.d.
Manganese (Mn)	mg/kg	2.5	15,000	10.4	27.2	n.d.	n.d.
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	n.d.
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.	n.d.
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	n.d.
Strontium (Sr)	mg/kg	2.5	56,000	22.8	13.5	n.d.	n.d.
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	n.d.
Organic Tin [^]	mg/kg	0.2	12	-	-	-	-
Zinc (Zn)	mg/kg	10	46,000	130	184	n.d.	n.d.

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3) For scraped-off toy materials:

				Test No.	T019	T020	T021
				Material No.	M022	M023	M024
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	n.d.	56.6	105	
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	18,750	n.d.	4.1	2.8	
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	
Chromium (Cr)	mg/kg	0.15	-	n.d.	n.d.	5.5	
Chromium III (Cr(III))§	mg/kg	0.15	460	-	-	5.5(*1)	
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	-	-	n.d.(*1)	
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	
Copper (Cu)	mg/kg	2.5	7,700	n.d.	n.d.	n.d.	
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	15,000	n.d.	22.1	63.5	
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	56,000	n.d.	67.4	5.0	
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	12	-	-	-	
Zinc (Zn)	mg/kg	10	46,000	n.d.	n.d.	19.4	

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3) For scraped-off toy materials:

				Test No.	T022	T023	T024
				Material No.	M025	M026	M027
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	103	26.7	15.0	
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	18,750	3.6	503	403	
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	
Chromium (Cr)	mg/kg	0.15	-	21.5	0.16	n.d.	
Chromium III (Cr(III))§	mg/kg	0.15	460	21.5(*1)	0.16(*1)	-	
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	n.d.(*1)	n.d.(*1)	-	
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	
Copper (Cu)	mg/kg	2.5	7,700	n.d.	106	n.d.	
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	15,000	227	10.9	17.4	
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	930	3.6	n.d.	n.d.	
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	56,000	4.5	4.6	5.3	
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	12	-	-	-	
Zinc (Zn)	mg/kg	10	46,000	26.5	75.1	199	

Abbreviation: n.d. = Not Detected (< RL)
 RL = Reporting Limit
 mg/kg denotes milligram per kilogram
 § denotes Cr(III) and Cr(VI) are not necessary to be determined when the Combined Chromium concentration value is less than the requirement
 ^ denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

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3) For scraped-off toy materials:

				Test No.	T025	T026	T027
				Material No.	M028	M030	M033
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	14.6	228	103	
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	18,750	388	345	176	
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	
Chromium (Cr)	mg/kg	0.15	-	n.d.	0.20	0.22	
Chromium III (Cr(III))§	mg/kg	0.15	460	-	0.20(*1)	0.22(*1)	
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	-	n.d.(*1)	n.d.(*1)	
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	
Copper (Cu)	mg/kg	2.5	7,700	n.d.	n.d.	5.0	
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	15,000	9.1	7.4	n.d.	
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	56,000	5.0	19.0	6.4	
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	12	-	-	-	
Zinc (Zn)	mg/kg	10	46,000	383	330	48.2	

Abbreviation: n.d. = Not Detected (< RL)
 RL = Reporting Limit
 mg/kg denotes milligram per kilogram
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3) For scraped-off toy materials:

				Test No.	T028	T029	T030
				Material No.	M034	M035	M036
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	11.5	n.d.	n.d.	n.d.
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	n.d.
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	n.d.
Barium (Ba)	mg/kg	2.5	18,750	5.7	2.7	n.d.	n.d.
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	n.d.
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	n.d.
Chromium (Cr)	mg/kg	0.15	-	0.42	n.d.	n.d.	n.d.
Chromium III (Cr(III))§	mg/kg	0.15	460	0.42(*1)	-	-	-
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	n.d.(*1)	-	-	-
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	n.d.
Copper (Cu)	mg/kg	2.5	7,700	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	n.d.
Manganese (Mn)	mg/kg	2.5	15,000	4.2	3.5	8.1	8.1
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	n.d.
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.	n.d.
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	n.d.
Strontium (Sr)	mg/kg	2.5	56,000	3.0	n.d.	n.d.	n.d.
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	n.d.
Organic Tin [^]	mg/kg	0.2	12	-	-	-	-
Zinc (Zn)	mg/kg	10	46,000	18.4	32.4	12.3	12.3

Abbreviation: n.d. = Not Detected (< RL)
 RL = Reporting Limit
 mg/kg denotes milligram per kilogram
 § denotes Cr(III) and Cr(VI) are not necessary to be determined when the Combined Chromium concentration value is less than the requirement
 ^ denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

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3) For scraped-off toy materials:

				Test No.	T031	T032	T033
				Material No.	M037	M038	M039
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	n.d.	21.2	n.d.	n.d.
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	n.d.
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	n.d.
Barium (Ba)	mg/kg	2.5	18,750	2.6	8.9	3.3	
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	n.d.
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	n.d.
Chromium (Cr)	mg/kg	0.15	-	n.d.	1.85	n.d.	n.d.
Chromium III (Cr(III))§	mg/kg	0.15	460	-	1.85(*1)	-	-
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	-	n.d.(*1)	-	-
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	n.d.
Copper (Cu)	mg/kg	2.5	7,700	n.d.	2.6	n.d.	n.d.
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	n.d.
Manganese (Mn)	mg/kg	2.5	15,000	3.8	12.3	5.2	
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	n.d.
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.	n.d.
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	n.d.
Strontium (Sr)	mg/kg	2.5	56,000	n.d.	4.9	3.1	
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	n.d.
Organic Tin [^]	mg/kg	0.2	12	-	-	-	-
Zinc (Zn)	mg/kg	10	46,000	10.0	3852	n.d.	n.d.

Abbreviation: n.d. = Not Detected (< RL)
 RL = Reporting Limit
 mg/kg denotes milligram per kilogram
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3) For scraped-off toy materials:

				Test No.	T034	T035	T036
				Material No.	M040	M041	M042
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	18.0	n.d.	67.6	
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	18,750	6.8	6.2	3.9	
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	
Chromium (Cr)	mg/kg	0.15	-	n.d.	n.d.	n.d.	
Chromium III (Cr(III))§	mg/kg	0.15	460	-	-	-	
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	-	-	-	
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	
Copper (Cu)	mg/kg	2.5	7,700	n.d.	n.d.	n.d.	
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	15,000	34.4	11.0	12.7	
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	56,000	5.5	4.3	3.3	
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	12	-	-	-	
Zinc (Zn)	mg/kg	10	46,000	n.d.	12.9	16.7	

Abbreviation: n.d. = Not Detected (< RL)
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3) For scraped-off toy materials:

				Test No.	T037	T038	T039
				Material No.	M043	M046	M047
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	56.5	15.3	n.d.	n.d.
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	n.d.
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	n.d.
Barium (Ba)	mg/kg	2.5	18,750	36.0	26.5	n.d.	n.d.
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	n.d.
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	n.d.
Chromium (Cr)	mg/kg	0.15	-	0.40	n.d.	n.d.	n.d.
Chromium III (Cr(III))§	mg/kg	0.15	460	0.40(*1)	-	-	-
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	n.d.(*1)	-	-	-
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	n.d.
Copper (Cu)	mg/kg	2.5	7,700	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	n.d.
Manganese (Mn)	mg/kg	2.5	15,000	12.3	n.d.	n.d.	5.7
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	n.d.
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.	n.d.
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	n.d.
Strontium (Sr)	mg/kg	2.5	56,000	7.5	3.0	n.d.	4.8
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	n.d.
Organic Tin [^]	mg/kg	0.2	12	-	-	-	-
Zinc (Zn)	mg/kg	10	46,000	30.0	n.d.	n.d.	15.9

Abbreviation: n.d. = Not Detected (< RL)
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 mg/kg denotes milligram per kilogram
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3) For scraped-off toy materials:

				Test No.	T040	T041	T042
				Material No.	M048	M049	M050
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	n.d.	n.d.	n.d.	n.d.
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	n.d.
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	n.d.
Barium (Ba)	mg/kg	2.5	18,750	n.d.	n.d.	n.d.	n.d.
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	n.d.
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	n.d.
Chromium (Cr)	mg/kg	0.15	-	n.d.	n.d.	n.d.	n.d.
Chromium III (Cr(III))§	mg/kg	0.15	460	-	-	-	-
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	-	-	-	-
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	n.d.
Copper (Cu)	mg/kg	2.5	7,700	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	n.d.
Manganese (Mn)	mg/kg	2.5	15,000	n.d.	n.d.	n.d.	n.d.
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	n.d.
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.	n.d.
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	n.d.
Strontium (Sr)	mg/kg	2.5	56,000	n.d.	n.d.	n.d.	n.d.
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	n.d.
Organic Tin [^]	mg/kg	0.2	12	-	-	-	-
Zinc (Zn)	mg/kg	10	46,000	n.d.	335	365	365

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3) For scraped-off toy materials:

				Test No.	T043	T044	T045
				Material No.	M051	M052	M053
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	n.d.	n.d.	n.d.	n.d.
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	n.d.
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	n.d.
Barium (Ba)	mg/kg	2.5	18,750	10.8	2.8	n.d.	n.d.
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	n.d.
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	n.d.
Chromium (Cr)	mg/kg	0.15	-	n.d.	n.d.	n.d.	n.d.
Chromium III (Cr(III))§	mg/kg	0.15	460	-	-	-	-
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	-	-	-	-
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	n.d.
Copper (Cu)	mg/kg	2.5	7,700	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	n.d.
Manganese (Mn)	mg/kg	2.5	15,000	n.d.	n.d.	n.d.	n.d.
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	n.d.
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.	n.d.
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	n.d.
Strontium (Sr)	mg/kg	2.5	56,000	n.d.	10.6	n.d.	n.d.
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	n.d.
Organic Tin [^]	mg/kg	0.2	12	-	-	-	-
Zinc (Zn)	mg/kg	10	46,000	n.d.	334	n.d.	n.d.

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3) For scraped-off toy materials:

				Test No.	T046	T047	T048
				Material No.	M054	M055	M056
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	100	193	39.4	
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	18,750	99.3	374	17.6	
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	
Chromium (Cr)	mg/kg	0.15	-	0.17	0.32	0.18	
Chromium III (Cr(III))§	mg/kg	0.15	460	0.17(*1)	0.32(*1)	0.18(*1)	
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	n.d.(*1)	n.d.(*1)	n.d.(*1)	
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	
Copper (Cu)	mg/kg	2.5	7,700	n.d.	n.d.	n.d.	
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	15,000	13.7	20.0	32.2	
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	56,000	4.8	9.8	22.4	
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	12	-	-	-	
Zinc (Zn)	mg/kg	10	46,000	20.9	51.4	44.5	

Abbreviation: n.d. = Not Detected (< RL)
 RL = Reporting Limit
 mg/kg denotes milligram per kilogram
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 ^ denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

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3) For scraped-off toy materials:

				Test No.	T049	T050	T051
				Material No.	M057	M058	M059
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	32.1	147	27.3	
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	18,750	9.0	11.5	n.d.	
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.	
Chromium (Cr)	mg/kg	0.15	-	n.d.	0.22	n.d.	
Chromium III (Cr(III))§	mg/kg	0.15	460	-	0.22(*1)	-	
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	-	n.d.(*1)	-	
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.	
Copper (Cu)	mg/kg	2.5	7,700	n.d.	n.d.	n.d.	
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	15,000	5.7	36.0	n.d.	
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	56,000	5.2	4.4	18.8	
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	12	-	-	-	
Zinc (Zn)	mg/kg	10	46,000	10.8	18.0	n.d.	

Abbreviation: n.d. = Not Detected (< RL)
 RL = Reporting Limit
 mg/kg denotes milligram per kilogram
 § denotes Cr(III) and Cr(VI) are not necessary to be determined when the Combined Chromium concentration value is less than the requirement
 ^ denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

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3) For scraped-off toy materials:

				Test No.	T052	T053
				Material No.	M060	M061
Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	70,000	25.6	n.d.	n.d.
Antimony (Sb)	mg/kg	5	560	n.d.	n.d.	n.d.
Arsenic (As)	mg/kg	5	47	n.d.	n.d.	n.d.
Barium (Ba)	mg/kg	2.5	18,750	9.2	2.9	2.9
Boron (B)	mg/kg	10	15,000	n.d.	n.d.	n.d.
Cadmium (Cd)	mg/kg	1	17	n.d.	n.d.	n.d.
Chromium (Cr)	mg/kg	0.15	-	0.21	0.46	0.46
Chromium III (Cr(III))§	mg/kg	0.15	460	0.21(*1)	0.46(*1)	0.46(*1)
Chromium VI (Cr(VI))§	mg/kg	0.15	0.2	n.d.(*1)	n.d.(*1)	n.d.(*1)
Cobalt (Co)	mg/kg	2.5	130	n.d.	n.d.	n.d.
Copper (Cu)	mg/kg	2.5	7,700	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	2.5	23	n.d.	n.d.	n.d.
Manganese (Mn)	mg/kg	2.5	15,000	3.6	n.d.	n.d.
Mercury (Hg)	mg/kg	2.5	94	n.d.	n.d.	n.d.
Nickel (Ni)	mg/kg	2.5	930	n.d.	n.d.	n.d.
Selenium (Se)	mg/kg	10	460	n.d.	n.d.	n.d.
Strontium (Sr)	mg/kg	2.5	56,000	4.4	n.d.	n.d.
Tin (Sn)	mg/kg	1.0	180,000	n.d.	n.d.	n.d.
Organic Tin [^]	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	n.d.	n.d.	n.d.

Abbreviation: n.d. = Not Detected (< RL)
 RL = Reporting Limit
 mg/kg denotes milligram per kilogram
 § denotes Cr(III) and Cr(VI) are not necessary to be determined when the Combined Chromium concentration value is less than the requirement
 ^ denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

Remark:

- *1 Confirmation of Cr(VI) content has been performed with reference to EN 71-3:2013+A3:2018, Annex F (analyzed by LC-ICP-MS or IC-ICP-MS/MS). Cr(III) content was confirmed by calculation.
- *2 The weight of test portion M004, M015, M019, M029, M031, M032, M044, M045 available were less than 10 mg, the test was not performed.

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2. EN 71-1:2014+A1:2018 Mechanical and physical properties
Test result:

	Test No:	T001
	Material No:	A001-A007
4. General requirements		
4.1 Material cleanliness		PASS
4.7 Edges		PASS
4.8 Points and metallic wires		PASS
4.20 Acoustics		PASS*1
7. Warnings, markings and instructions for use		
7.1 General		PASS
7.2 Toys not intended for children under 36 months		PASS

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.

Remark:

*1 This clause is only applicable to A009.

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3. 2009/48/EC CE Marking
Test result:

	Test No:	T001
	Material No:	A001-A007
CE-marking		PASS

4. 2009/48/EC Labeling Requirement (Importer/ Manufacturer Mark, Product Identification, Washing/ Cleaning instruction)
Test result:

	Test No:	T001
	Material No:	A001-A007
Importer/ Manufacturer Mark (European Company name and address)+		Present on the package
Product Identification - type, batch, serial or model number+		Present on the package

Remark:

+ These labeling shall be indicated on the toy, or where that is not possible, on its packaging or in a documents accompanying the toys.

The correct adherence to all requirements according to directive 2009/48/EC in regards to the marking (name or trademark and contact address of the manufacturer respectively the marking for identification [type, batch, model or serial no.]) of the toy can only be confirmed by the manufacturer, his delegate or the person who brings it onto the market. The marked article were assessed, however, they can not be evaluated in the frame of this test.

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5. EN 71-2:2011+A1:2014 Flammability**Test result:**

	Test No:	T001
	Material No:	A001-A012
4.1 General		PASS

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.

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Sample Photos



- END -