



Test
TS EN ISO/IEC 17025
AB-0716-T

AB-0716-T
TURT230071076
07-23

TEST REPORT

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REPORT NUMBER : TURT230071076

APPLICANT NAME **Bigpoint Kırtasiye San. ve Tic.Ltd.Şti.**

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Attention : Efe Yüksel (efe@bigpoint.com.tr)

SAMPLE DESCRIPTION :

Sample 1: Two samples of Beestar 12 Colour Jumbo Dry Paint Pencil
Sample 2: Two samples of Beestar 12 Colour Dry Paint Pencil
Sample 3: Two sample sof Lotte 12 Colour Dry Paint Pencil

DATE IN: 07 July, 2023 (09:32)

DATE OUT : 14 July, 2023

TESTED MODEL NO :

Sample 1: 26014932
Sample 2: 26014929
Sample 3: LT940

CLAIMED MODEL NO :

Sample 1: 26014932
Sample 2: 26014929
Sample 3: LT940

COUNTRY OF ORIGIN :

Sample 1: EGYPT
Sample 2: EGYPT
Sample 3: EGYPT

Ezgi Aleyna Arı
Senior Customer Care Executive

Zeynep Akın
Chemical Laboratory Manager

İsmail Avcıoğlu
Textile Laboratory Manager

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14 July, 2023

TEST	Sample 1	Sample 2	Sample 3
SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES	P	P	P
SAFETY OF TOYS – PART 2: FLAMMABILITY	P	P	P
SAFETY OF TOYS – PART 3: MIGRATION OF CERTAIN ELEMENTS	P	P	P
PHTHALATE CONTENT	P	P	P
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ANALYSIS	P	P	P

P = MEETS BUYER' S REQUIREMENT / F = DOES NOT MEET BUYER' S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED / NA = NOT APPLICABLE/ LS : LACK OF SAMPLE

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SAMPLE	
Sample 1	Beestar 12 Colour Jumbo Dry Paint Pencil
Sample 2	Beestar 12 Colour Dry Paint Pencil
Sample 3	Lotte 12 Colour Dry Paint Pencil
PARTS	
1	Blue jumbo body (Sample 1)
2	Pink jumbo body (Sample 1)
3	Yellow jumbo body (Sample 1)
4	Orange jumbo body (Sample 1)
5	Light green jumbo body (Sample 1)
6	Navy jumbo body (Sample 1)
7	Light brown jumbo body (Sample 1)
8	Purple jumbo body (Sample 1)
9	Red jumbo body (Sample 1)
10	Dark green jumbo body (Sample 1)
11	Dark brown jumbo body (Sample 1)
12	Black jumbo body (Sample 1)
13	Beige inner part (Sample 1)
14	Silver print (Sample 1)
15	Blue jumbo dye (Sample 1)
16	Pink jumbo dye (Sample 1)
17	Yellow jumbo dye (Sample 1)
18	Orange jumbo dye (Sample 1)
19	Light green jumbo dye (Sample 1)
20	Navy jumbo dye (Sample 1)
21	Light brown jumbo dye (Sample 1)
22	Purple jumbo dye (Sample 1)
23	Red jumbo dye (Sample 1)
24	Dark green jumbo dye (Sample 1)
25	Dark brown jumbo dye (Sample 1)
26	Black jumbo dye (Sample 1)
27	Blue body (Sample 2&3)
28	Navy body (Sample 2&3)
29	Purple body (Sample 2&3)
30	Pink body (Sample 2&3)
31	Red body (Sample 2&3)
32	Orange body (Sample 2&3)
33	Yellow body (Sample 2&3)
34	Light green body (Sample 2&3)
35	Dark green body (Sample 2&3)
36	Light brown body (Sample 2&3)
37	Dark brown body (Sample 2&3)
38	Black body (Sample 2&3)

R E S U L T S

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PARTS	
39	Beige inner part (Sample 2&3)
40	Silver print (Sample 2&3)
41	Blue dye (Sample 2&3)
42	Navy dye (Sample 2&3)
43	Purple dye (Sample 2&3)
44	Pink dye (Sample 2&3)
45	Red dye (Sample 2&3)
46	Orange dye (Sample 2&3)
47	Yellow dye (Sample 2&3)
48	Light green dye (Sample 2&3)
49	Dark green dye (Sample 2&3)
50	Light brown dye (Sample 2&3)
51	Dark brown dye (Sample 2&3)
52	Black dye (Sample 2&3)
53	Multicolor cartoon box (Sample 1)
54	Multicolor cartoon box (Sample 2)
55	Multicolor cartoon box (Sample 3)

Remark: Only suitable parts tested for the related tests.

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This report details the clauses appropriate to this item. Those clauses not referred to were considered not applicable.

SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

BS EN 71 – 1: 2014 + A1 : 2018

Sample 1

The item was labelled: “UYARI! BOĞULMA TEHLİKESİ Küçük Parçalar 3 yaşından küçük çocuklar için uygun değildir.”
“WARNING! CHOKING HAZARD Small parts are not suitable for children under 3 years old.”

The item was tested for children aged over 10 months.

The item was packaging in a cardboard box which was considered to be disposable.

SECTION	TEST	RESULTS
4	General Requirements	
4.1	Material	Pass
4.7	Edges	Pass
4.8	Point & Metallic Wires	Pass
5	Toys Intended For Children Under 36 Months	
5.1	General Requirements	
a)	Toys and removable components	Pass
5.10	Small Balls	Pass
7	Warning and Instruction for Use	
7.1	General # The toy was labelled for over 3 years but the toy was suitable for children under 3 years.	Pass See Comment

RESULTS

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Requirements of clause 7.1 is as below. Only requirements that can be checked (as summited) were considered.

Warnings on toys shall not be misleading or incorrect. Toys intended for children under 36 months shall comply with the requirements in Clause 5. A warning on a toy or its packaging does not release the manufacturer or his authorized representative from the obligation to meet these requirements. A toy shall not bear a warning that conflicts with the intended use of the toy, as determined by virtue of its function, dimension and characteristics.

The warnings shall be preceded by the words "Warning" or "Warnings", as appropriate (i.e. instead of repeating the word "Warning" before each warning when several of the warnings in Clause 7 are present, the word "Warnings" may be used once). The word "Warning" or "Warnings" may be followed by punctuation, e.g. an exclamation mark.

The manufacturer shall mark the warnings in a clearly visible, easily legible and understandable and accurate manner on the toy, on an affixed label or on the packaging and, if appropriate, include the warnings in the instructions for use.

Manufacturers shall for that purpose consider the good practice given in A.33.

In the following clauses, the location of the warnings is therefore indicated (on the toy itself, on the packaging, in the instructions for use, on an accompanying leaflet). Warnings which determine the decision to purchase the toy shall appear on the consumer packaging or be otherwise clearly visible to the consumer before the purchase.

Small toys that are sold without packaging (for example from a display box or from a vending machine) shall have the appropriate warnings affixed to them. In all cases the warning shall be clearly legible at the point of sale. It is not sufficient to place the warning(s) only on a display box.

For information, it should be noted that the requirement that certain warnings shall be "clearly visible to the consumer at the time of purchase" applies also in cases where the purchase is made on line (e.g. internet) or by catalogue or by other means where the buyer does not have access to the toy at the time of purchase.

In the following subclauses a requirement, that a toy shall carry a warning shall mean that the warning shall appear on the toy itself.

NOTE:

The text of this note is for information only and the indents do not constitute requirements of this European Standard. The information is not exhaustive and Directive 2009/48/EC and the associated guidance documents should be consulted for further details.

The toy or, its packaging or document accompanying must be labelled with:

- The name and address of the manufacturer** **(Not Present)**
- The name and address of the importer.** **(Present)**
- Type, batch, serial or model number or other element allowing of toy identification **(Present)**
- A CE mark in the correct shape and size. **(Present)**
- Warning and other information should be in the national language(s) of the countries where the toy is marketed.

** In the case of the toy sell in European countries, the toy, its packaging or document accompanying must be labelled with the name and address of the manufacturer and importer.

***Only Turkish language was checked.

Estimated Total Uncertainty = ($\pm 19.9\%$)

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This report details the clauses appropriate to this item. Those clauses not referred to were considered not applicable.

SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

BS EN 71 – 1: 2014 + A1 : 2018

Sample 2

The item was labelled: "UYARI! BOĞULMA TEHLİKESİ Küçük Parçalar 3 yaşından küçük çocuklar için uygun değildir."
"WARNING! CHOKING HAZARD Small parts are not suitable for children under 3 years old."

The item was tested for children aged over 10 months.

The item was packaging in a cardboard box which was considered to be disposable.

SECTION	TEST	RESULTS
4	General Requirements	
4.1	Material	Pass
4.7	Edges	Pass
4.8	Point & Metallic Wires	Pass
5	Toys Intended For Children Under 36 Months	
5.1	General Requirements	
a)	Toys and removable components	Pass
5.10	Small Balls	Pass
7	Warning and Instruction for Use	
7.1	General # The toy was labelled for over 3 years but the toy was suitable for children under 3 years.	Pass See Comment

RESULTS

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REPORT : TURT230071076

14 July, 2023

Requirements of clause 7.1 is as below. Only requirements that can be checked (as summited) were considered.

Warnings on toys shall not be misleading or incorrect. Toys intended for children under 36 months shall comply with the requirements in Clause 5. A warning on a toy or its packaging does not release the manufacturer or his authorized representative from the obligation to meet these requirements. A toy shall not bear a warning that conflicts with the intended use of the toy, as determined by virtue of its function, dimension and characteristics.

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For information, it should be noted that the requirement that certain warnings shall be "clearly visible to the consumer at the time of purchase" applies also in cases where the purchase is made on line (e.g. internet) or by catalogue or by other means where the buyer does not have access to the toy at the time of purchase.

In the following subclauses a requirement, that a toy shall carry a warning shall mean that the warning shall appear on the toy itself.

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- The name and address of the importer.** **(Present)**
- Type, batch, serial or model number or other element allowing of toy identification **(Present)**
- A CE mark in the correct shape and size. **(Present)**
- Warning and other information should be in the national language(s) of the countries where the toy is marketed.

** In the case of the toy sell in European countries, the toy, its packaging or document accompanying must be labelled with the name and address of the manufacturer and importer.

***Only Turkish language was checked.

Estimated Total Uncertainty = ($\pm 19.9\%$)

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This report details the clauses appropriate to this item. Those clauses not referred to were considered not applicable.

SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

BS EN 71 – 1: 2014 + A1 : 2018

Sample 3

The item was labelled: “UYARI! BOĞULMA TEHLİKESİ Küçük Parçalar 3 yaşından küçük çocuklar için uygun değildir.”
“WARNING! CHOKING HAZARD Small parts are not suitable for children under 3 years old.”

The item was tested for children aged over 10 months.

The item was packaging in a cardboard box which was considered to be disposable.

SECTION	TEST	RESULTS
4	General Requirements	
4.1	Material	Pass
4.7	Edges	Pass
4.8	Point & Metallic Wires	Pass
5	Toys Intended For Children Under 36 Months	
5.1	General Requirements	
a)	Toys and removable components	Pass
5.10	Small Balls	Pass
7	Warning and Instruction for Use	
7.1	General # The toy was labelled for over 3 years but the toy was suitable for children under 3 years.	Pass See Comment

RESULTS

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Requirements of clause 7.1 is as below. Only requirements that can be checked (as summited) were considered.

Warnings on toys shall not be misleading or incorrect. Toys intended for children under 36 months shall comply with the requirements in Clause 5. A warning on a toy or its packaging does not release the manufacturer or his authorized representative from the obligation to meet these requirements. A toy shall not bear a warning that conflicts with the intended use of the toy, as determined by virtue of its function, dimension and characteristics.

The warnings shall be preceded by the words "Warning" or "Warnings", as appropriate (i.e. instead of repeating the word "Warning" before each warning when several of the warnings in Clause 7 are present, the word "Warnings" may be used once). The word "Warning" or "Warnings" may be followed by punctuation, e.g. an exclamation mark.

The manufacturer shall mark the warnings in a clearly visible, easily legible and understandable and accurate manner on the toy, on an affixed label or on the packaging and, if appropriate, include the warnings in the instructions for use.

Manufacturers shall for that purpose consider the good practice given in A.33.

In the following clauses, the location of the warnings is therefore indicated (on the toy itself, on the packaging, in the instructions for use, on an accompanying leaflet). Warnings which determine the decision to purchase the toy shall appear on the consumer packaging or be otherwise clearly visible to the consumer before the purchase.

Small toys that are sold without packaging (for example from a display box or from a vending machine) shall have the appropriate warnings affixed to them. In all cases the warning shall be clearly legible at the point of sale. It is not sufficient to place the warning(s) only on a display box.

For information, it should be noted that the requirement that certain warnings shall be "clearly visible to the consumer at the time of purchase" applies also in cases where the purchase is made on line (e.g. internet) or by catalogue or by other means where the buyer does not have access to the toy at the time of purchase.

In the following subclauses a requirement, that a toy shall carry a warning shall mean that the warning shall appear on the toy itself.

NOTE:

The text of this note is for information only and the indents do not constitute requirements of this European Standard. The information is not exhaustive and Directive 2009/48/EC and the associated guidance documents should be consulted for further details.

The toy or, its packaging or document accompanying must be labelled with:

- The name and address of the manufacturer** **(Not Present)**
- The name and address of the importer.** **(Present)**
- Type, batch, serial or model number or other element allowing of toy identification **(Present)**
- A CE mark in the correct shape and size. **(Present)**
- Warning and other information should be in the national language(s) of the countries where the toy is marketed.

** In the case of the toy sell in European countries, the toy, its packaging or document accompanying must be labelled with the name and address of the manufacturer and importer.

***Only Turkish language was checked.

Estimated Total Uncertainty = ($\pm 19.9\%$)

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This report details the clauses appropriate to this item. Those clauses not referred to were considered not applicable.

SAFETY OF TOYS – PART 2: FLAMMABILITY

BS EN 71-2 : 2020

Sample 1

SECTION	TEST	RESULTS
4.1	General	
	Celluloid (cellulose nitrate) and materials with same burning behaviour in fire	Pass

Sample 2

SECTION	TEST	RESULTS
4.1	General	
	Celluloid (cellulose nitrate) and materials with same burning behaviour in fire	Pass

Sample 3

SECTION	TEST	RESULTS
4.1	General	
	Celluloid (cellulose nitrate) and materials with same burning behaviour in fire	Pass

The test results thus obtained can not be considered as providing an overall indication of the potential fire hazard of toys or materials when subjected to other sources of ignition.

Estimated Total Uncertainty = ($\pm 18.6\%$)

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SAFETY OF TOYS – PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1:2021

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma (ICP-MS)

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category III
	Part 1	Part 2	Part 3	Part 4		
Antimony (Sb)	1.7	0.9	1.3	2.8	0,125	560
Arsenic (As)	ND	ND	ND	ND	0,125	47
Barium (Ba)	1	1.3	1.5	1.2	0,125	18750
Cadmium (Cd)	ND	ND	ND	ND	0,125	17
Chromium (III)	ND	ND	ND	ND	0,125	460
Chromium (VI)	ND	ND	ND	ND	0,025	0,053
Lead (Pb)	0.5	0.3	0.4	0.9	0,125	23
Mercury (Hg)	ND	ND	ND	ND	0,0125	94
Selenium (Se)	ND	ND	ND	ND	0,125	460
Aluminium (Al)	2.4	1.8	2.8	2.3	0,125	28130
Boron (B)	ND	ND	ND	ND	0,125	15000
Cobalt (Co)	ND	ND	ND	ND	0,125	130
Copper (Cu)	1.8	1.5	2.1	2.3	0,125	7700
Manganese (Mn)	0.6	0.8	0.6	0.5	0,125	15000
Nickel (Ni)	0.6	0.9	0.5	1.1	0,125	930
Strontium (Sr)	1.4	1.1	1.3	2.3	0,125	56000
Tin (Sn)	ND	ND	ND	ND	0,125	180000
Organic tin Δ	ND	ND	ND	ND	0.02	12
Zinc (Zn)	3.5	2.8	3.1	4.8	0,125	46000

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetraethyl tin, n- Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)

ND

(Estimated Total Uncertainty)

=mg / kg

=Not Detected

= Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%

Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%

Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%

Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%

Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

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14 July, 2023

SAFETY OF TOYS – PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1:2021

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma (ICP-MS)

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category III
	Part 5	Part 6	Part 7	Part 8		
Antimony (Sb)	3.1	2.5	1	1.3	0,125	560
Arsenic (As)	ND	ND	ND	ND	0,125	47
Barium (Ba)	1.6	1.9	0.5	0.7	0,125	18750
Cadmium (Cd)	ND	ND	ND	ND	0,125	17
Chromium (III)	ND	ND	ND	ND	0,125	460
Chromium (VI)	ND	ND	ND	ND	0,025	0,053
Lead (Pb)	0.7	0.8	0.3	0.5	0,125	23
Mercury (Hg)	ND	ND	ND	ND	0,0125	94
Selenium (Se)	ND	ND	ND	ND	0,125	460
Aluminium (Al)	2.9	3.3	1.8	2.1	0,125	28130
Boron (B)	ND	ND	ND	ND	0,125	15000
Cobalt (Co)	ND	ND	0.3	0.6	0,125	130
Copper (Cu)	2.8	3.1	2	2.8	0,125	7700
Manganese (Mn)	0.7	0.9	0.3	0.5	0,125	15000
Nickel (Ni)	1.3	1.2	0.9	1.1	0,125	930
Strontium (Sr)	2.7	2.1	2.3	2.8	0,125	56000
Tin (Sn)	ND	ND	ND	ND	0,125	180000
Organic tin Δ	ND	ND	ND	ND	0.02	12
Zinc (Zn)	5.8	4.7	2.4	3.1	0,125	46000

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetraethyl tin, n- Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)

ND

(Estimated Total Uncertainty)

=mg / kg

=Not Detected

= Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%

Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%

Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%

Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%

Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

Intertek Test Hizmetleri A.S.

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REPORT : TURT230071076

14 July, 2023

SAFETY OF TOYS – PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1:2021

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma (ICP-MS)

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category III
	Part 9	Part 10	Part 11	Part 12		
Antimony (Sb)	1.7	1.1	1.3	1.6	0,125	560
Arsenic (As)	ND	ND	ND	ND	0,125	47
Barium (Ba)	1.1	0.7	0.9	1.2	0,125	18750
Cadmium (Cd)	ND	ND	ND	ND	0,125	17
Chromium (III)	ND	ND	ND	ND	0,125	460
Chromium (VI)	ND	ND	ND	ND	0,025	0,053
Lead (Pb)	0.6	0.3	0.4	0.7	0,125	23
Mercury (Hg)	ND	ND	ND	ND	0,0125	94
Selenium (Se)	ND	ND	ND	ND	0,125	460
Aluminium (Al)	3.3	0.8	1.2	1.3	0,125	28130
Boron (B)	ND	ND	ND	ND	0,125	15000
Cobalt (Co)	0.5	0.3	0.6	0.8	0,125	130
Copper (Cu)	3.1	1.1	1.3	2.1	0,125	7700
Manganese (Mn)	0.7	0.3	0.5	0.8	0,125	15000
Nickel (Ni)	1.3	0.4	0.6	0.7	0,125	930
Strontium (Sr)	3.3	1.1	1.6	1.5	0,125	56000
Tin (Sn)	ND	ND	ND	ND	0,125	180000
Organic tin Δ	ND	ND	ND	ND	0.02	12
Zinc (Zn)	3.8	2.2	3.1	2.8	0,125	46000

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetraethyl tin, n- Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)

ND

(Estimated Total Uncertainty)

=mg / kg

=Not Detected

= Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%

Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%

Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%

Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%

Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

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14 July, 2023

SAFETY OF TOYS – PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1:2021

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma (ICP-MS)

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category III
	Part 13					
Antimony (Sb)	2.8				0,125	560
Arsenic (As)	ND				0,125	47
Barium (Ba)	1.4				0,125	18750
Cadmium (Cd)	0.3				0,125	17
Chromium (III)	ND				0,125	460
Chromium (VI)	ND				0,025	0,053
Lead (Pb)	0.6				0,125	23
Mercury (Hg)	ND				0,0125	94
Selenium (Se)	ND				0,125	460
Aluminium (Al)	2.3				0,125	28130
Boron (B)	ND				0,125	15000
Cobalt (Co)	ND				0,125	130
Copper (Cu)	2.7				0,125	7700
Manganese (Mn)	0.7				0,125	15000
Nickel (Ni)	1.1				0,125	930
Strontium (Sr)	1.2				0,125	56000
Tin (Sn)	ND				0,125	180000
Organic tin Δ	ND				0.02	12
Zinc (Zn)	3.9				0,125	46000

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetraethyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)

ND

(Estimated Total Uncertainty)

=mg / kg

=Not Detected

= Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%

Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%

Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%

Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%

Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

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SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1:2021

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma-ICP_MS.

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category I
	Part 15	Part 16	Part 17	Part 18		
Antimony (Sb)	ND	ND	ND	ND	0,125	45
Arsenic (As)	ND	ND	ND	ND	0,125	3.8
Barium (Ba)	ND	ND	ND	ND	0,125	1500
Cadmium (Cd)	ND	ND	ND	ND	0,125	1.3
Chromium (III)	ND	ND	ND	ND	0,125	37.5
Chromium (VI)	ND	ND	ND	ND	0,0025	0.02
Lead (Pb)	ND	ND	ND	ND	0,125	2.0
Mercury (Hg)	ND	ND	ND	ND	0,0125	7.5
Selenium (Se)	ND	ND	ND	ND	0,125	37.5
Aluminium (Al)	10.7	10.9	5.4	2.7	0,125	2250
Boron (B)	ND	ND	ND	ND	0,125	1200
Cobalt (Co)	ND	ND	ND	ND	0,125	10.5
Copper (Cu)	ND	ND	ND	ND	0,125	622.5
Manganese (Mn)	1.1	1.1	1.2	1.6	0,125	1200
Nickel (Ni)	ND	ND	ND	ND	0,125	75
Strontium (Sr)	0.2	22.1	0.2	0.6	0,125	4500
Tin (Sn)	ND	ND	ND	ND	1,25	15000
Organic tin Δ	ND	ND	ND	ND	0,02	0.9
Zinc (Zn)	ND	ND	ND	ND	0,125	3750

Note: Dewaxed procedure was applied.

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetra-butyl tin, n- Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)

ND

(Estimated Total Uncertainty)

=mg / kg

=Not Detected

= Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%

Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%

Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%

Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%

Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

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SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1:2021

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma-ICP_MS.

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category I
	Part 19	Part 20	Part 21	Part 22		
Antimony (Sb)	ND	ND	ND	ND	0,125	45
Arsenic (As)	ND	ND	ND	ND	0,125	3.8
Barium (Ba)	ND	ND	ND	ND	0,125	1500
Cadmium (Cd)	ND	ND	ND	ND	0,125	1.3
Chromium (III)	ND	ND	ND	ND	0,125	37.5
Chromium (VI)	ND	ND	ND	ND	0,0025	0.02
Lead (Pb)	ND	ND	ND	ND	0,125	2.0
Mercury (Hg)	ND	ND	ND	ND	0,0125	7.5
Selenium (Se)	ND	ND	ND	ND	0,125	37.5
Aluminium (Al)	5.8	4.2	7.2	14.9	0,125	2250
Boron (B)	ND	ND	ND	ND	0,125	1200
Cobalt (Co)	ND	ND	ND	ND	0,125	10.5
Copper (Cu)	ND	ND	ND	ND	0,125	622.5
Manganese (Mn)	1.2	2.3	1.5	2.2	0,125	1200
Nickel (Ni)	ND	ND	ND	ND	0,125	75
Strontium (Sr)	0.2	0.3	0.2	34.7	0,125	4500
Tin (Sn)	ND	ND	ND	ND	1,25	15000
Organic tin Δ	ND	ND	ND	ND	0,02	0.9
Zinc (Zn)	54.5	ND	ND	0.6	0,125	3750

Note: Dewaxed procedure was applied.

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n- Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)
ND
(Estimated Total Uncertainty)

=mg / kg
=Not Detected
= Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%
Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%
Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%
Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%
Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

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SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1:2021

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma-ICP_MS.

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category I
	Part 23	Part 24	Part 25	Part 26		
Antimony (Sb)	ND	ND	ND	ND	0,125	45
Arsenic (As)	ND	ND	ND	ND	0,125	3.8
Barium (Ba)	ND	ND	ND	ND	0,125	1500
Cadmium (Cd)	ND	ND	ND	ND	0,125	1.3
Chromium (III)	ND	ND	ND	ND	0,125	37.5
Chromium (VI)	ND	ND	ND	ND	0,0025	0.02
Lead (Pb)	ND	ND	ND	ND	0,125	2.0
Mercury (Hg)	ND	ND	ND	ND	0,0125	7.5
Selenium (Se)	ND	ND	ND	ND	0,125	37.5
Aluminium (Al)	4.3	ND	ND	1.8	0,125	2250
Boron (B)	ND	ND	ND	ND	0,125	1200
Cobalt (Co)	ND	ND	ND	ND	0,125	10.5
Copper (Cu)	ND	ND	ND	ND	0,125	622.5
Manganese (Mn)	2	1.5	1.7	1.4	0,125	1200
Nickel (Ni)	ND	ND	ND	ND	0,125	75
Strontium (Sr)	77.3	1.5	1.5	2.2	0,125	4500
Tin (Sn)	ND	ND	ND	ND	1,25	15000
Organic tin Δ	ND	ND	ND	ND	0,02	0.9
Zinc (Zn)	ND	ND	ND	2	0,125	3750

Note: Dewaxed procedure was applied.

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n- Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)

ND

(Estimated Total Uncertainty)

=mg / kg

=Not Detected

= Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%

Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%

Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%

Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%

Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

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SAFETY OF TOYS – PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1:2021

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma (ICP-MS)

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category III
	Part 27	Part 28	Part 29	Part 30		
Antimony (Sb)	2.4	3.1	1.6	1.8	0,125	560
Arsenic (As)	ND	ND	ND	ND	0,125	47
Barium (Ba)	1.6	1.8	0.7	1.1	0,125	18750
Cadmium (Cd)	0.2	0.4	ND	ND	0,125	17
Chromium (III)	ND	ND	ND	ND	0,125	460
Chromium (VI)	ND	ND	ND	ND	0,025	0,053
Lead (Pb)	0.7	0.8	0.4	0.6	0,125	23
Mercury (Hg)	ND	ND	ND	ND	0,0125	94
Selenium (Se)	ND	ND	ND	ND	0,125	460
Aluminium (Al)	2.4	2.8	1.2	1.3	0,125	28130
Boron (B)	ND	ND	ND	ND	0,125	15000
Cobalt (Co)	ND	ND	0.5	0.4	0,125	130
Copper (Cu)	3.1	3.9	1	1.2	0,125	7700
Manganese (Mn)	0.6	0.9	0.3	0.6	0,125	15000
Nickel (Ni)	1.3	1.2	0.4	0.5	0,125	930
Strontium (Sr)	1.6	1.4	2.6	3.1	0,125	56000
Tin (Sn)	ND	ND	ND	ND	0,02	180000
Organic tin Δ	ND	ND	ND	ND	0,125	12
Zinc (Zn)	4.1	4.8	2.4	3.1	0,125	46000

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n- Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)

ND

(Estimated Total Uncertainty)

=mg / kg

=Not Detected

= Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%

Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%

Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%

Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%

Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

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SAFETY OF TOYS – PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1:2021

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma (ICP-MS)

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category III
	Part 31	Part 32	Part 33	Part 34		
Antimony (Sb)	2.1	1.5	1.3	1.6	0,125	560
Arsenic (As)	ND	ND	ND	ND	0,125	47
Barium (Ba)	0.9	1	1.4	1.8	0,125	18750
Cadmium (Cd)	ND	ND	ND	ND	0,125	17
Chromium (III)	ND	ND	ND	ND	0,125	460
Chromium (VI)	ND	ND	ND	ND	0,025	0,053
Lead (Pb)	0.9	0.7	0.9	0.6	0,125	23
Mercury (Hg)	ND	ND	ND	ND	0,0125	94
Selenium (Se)	ND	ND	ND	ND	0,125	460
Aluminium (Al)	1.6	1.3	1.8	2.1	0,125	28130
Boron (B)	ND	ND	ND	ND	0,125	15000
Cobalt (Co)	0.3	0.3	0.5	0.6	0,125	130
Copper (Cu)	1.4	1.8	1.7	1.9	0,125	7700
Manganese (Mn)	0.7	0.5	0.6	0.9	0,125	15000
Nickel (Ni)	0.8	ND	ND	ND	0,125	930
Strontium (Sr)	2.8	1.1	1.3	1.6	0,125	56000
Tin (Sn)	ND	ND	ND	ND	0,02	180000
Organic tin Δ	ND	ND	ND	ND	0,125	12
Zinc (Zn)	3.8	2.8	2.4	2.8	0,125	46000

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n- Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)

ND

(Estimated Total Uncertainty)

=mg / kg

=Not Detected

= Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%

Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%

Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%

Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%

Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

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SAFETY OF TOYS – PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1:2021

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma (ICP-MS)

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category III
	Part 35	Part 36	Part 37	Part 38		
Antimony (Sb)	3	2.8	3.5	1.6	0,125	560
Arsenic (As)	ND	ND	ND	ND	0,125	47
Barium (Ba)	1.4	1.6	2.1	0.8	0,125	18750
Cadmium (Cd)	ND	ND	ND	ND	0,125	17
Chromium (III)	ND	ND	ND	ND	0,125	460
Chromium (VI)	ND	ND	ND	ND	0,025	0,053
Lead (Pb)	0.5	0.8	0.7	0.4	0,125	23
Mercury (Hg)	ND	ND	ND	ND	0,0125	94
Selenium (Se)	ND	ND	ND	ND	0,125	460
Aluminium (Al)	2.6	3.3	2.8	1	0,125	28130
Boron (B)	ND	ND	ND	ND	0,125	15000
Cobalt (Co)	ND	ND	ND	ND	0,125	130
Copper (Cu)	1.9	2.1	3.2	0.8	0,125	7700
Manganese (Mn)	0.6	0.7	0.5	0.4	0,125	15000
Nickel (Ni)	0.8	0.6	0.9	0.5	0,125	930
Strontium (Sr)	2.1	3.1	2.8	1	0,125	56000
Tin (Sn)	ND	ND	ND	ND	0,02	180000
Organic tin Δ	ND	ND	ND	ND	0,125	12
Zinc (Zn)	4.1	3.3	2.8	2.9	0,125	46000

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n- Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)

ND

(Estimated Total Uncertainty)

=mg / kg

=Not Detected

= Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%

Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%

Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%

Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%

Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

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SAFETY OF TOYS – PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1:2021

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma (ICP-MS)

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category III
	Part 39					
Antimony (Sb)	1.9				0,125	560
Arsenic (As)	ND				0,125	47
Barium (Ba)	1.1				0,125	18750
Cadmium (Cd)	ND				0,125	17
Chromium (III)	ND				0,125	460
Chromium (VI)	ND				0,025	0,053
Lead (Pb)	0.6				0,125	23
Mercury (Hg)	ND				0,0125	94
Selenium (Se)	ND				0,125	460
Aluminium (Al)	1.3				0,125	28130
Boron (B)	ND				0,125	15000
Cobalt (Co)	ND				0,125	130
Copper (Cu)	0.6				0,125	7700
Manganese (Mn)	0.5				0,125	15000
Nickel (Ni)	0.8				0,125	930
Strontium (Sr)	1.2				0,125	56000
Tin (Sn)	ND				0,02	180000
Organic tin Δ	ND				0,125	12
Zinc (Zn)	3.1				0,125	46000

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetra-butyl tin, n- Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)

ND

(Estimated Total Uncertainty)

=mg / kg

=Not Detected

= Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%

Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%

Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%

Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%

Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

Intertek Test Hizmetleri A.S.

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14 July, 2023

SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1:2021

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma-ICP_MS.

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category I
	Part 41	Part 42	Part 43	Part 44		
Antimony (Sb)	ND	ND	ND	ND	0,125	45
Arsenic (As)	ND	ND	ND	ND	0,125	3.8
Barium (Ba)	ND	ND	ND	ND	0,125	1500
Cadmium (Cd)	ND	ND	ND	ND	0,125	1.3
Chromium (III)	ND	ND	ND	ND	0,125	37.5
Chromium (VI)	ND	ND	ND	ND	0,0025	0.02
Lead (Pb)	ND	ND	ND	ND	0,125	2.0
Mercury (Hg)	ND	ND	ND	ND	0,0125	7.5
Selenium (Se)	ND	ND	ND	ND	0,125	37.5
Aluminium (Al)	11.2	1.9	8.5	11.2	0,125	2250
Boron (B)	ND	ND	ND	ND	0,125	1200
Cobalt (Co)	ND	ND	ND	ND	0,125	10.5
Copper (Cu)	ND	ND	ND	ND	0,125	622.5
Manganese (Mn)	1.4	1	1.4	1.3	0,125	1200
Nickel (Ni)	ND	ND	ND	ND	0,125	75
Strontium (Sr)	ND	0.2	10.1	22.4	0,125	4500
Tin (Sn)	ND	ND	ND	ND	1,25	15000
Organic tin Δ	ND	ND	ND	ND	0,02	0.9
Zinc (Zn)	ND	ND	ND	ND	0,125	3750

Note: Dewaxed procedure was applied.

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetra-butyl tin, n- Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)

ND

(Estimated Total Uncertainty)

=mg / kg

=Not Detected

= Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%

Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%

Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%

Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%

Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

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SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1:2021

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma-ICP_MS.

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category I
	Part 45	Part 46	Part 47	Part 48		
Antimony (Sb)	ND	ND	ND	ND	0,125	45
Arsenic (As)	ND	ND	ND	ND	0,125	3.8
Barium (Ba)	ND	ND	ND	ND	0,125	1500
Cadmium (Cd)	ND	ND	ND	ND	0,125	1.3
Chromium (III)	ND	ND	ND	ND	0,125	37.5
Chromium (VI)	ND	ND	ND	ND	0,0025	0.02
Lead (Pb)	ND	ND	ND	ND	0,125	2.0
Mercury (Hg)	ND	ND	ND	ND	0,0125	7.5
Selenium (Se)	ND	ND	ND	ND	0,125	37.5
Aluminium (Al)	1.8	1.9	10.4	ND	0,125	2250
Boron (B)	ND	ND	ND	ND	0,125	1200
Cobalt (Co)	ND	ND	ND	ND	0,125	10.5
Copper (Cu)	ND	ND	ND	ND	0,125	622.5
Manganese (Mn)	2.6	1.2	2.2	1.2	0,125	1200
Nickel (Ni)	ND	ND	ND	ND	0,125	75
Strontium (Sr)	88.9	0.6	0.2	0.3	0,125	4500
Tin (Sn)	ND	ND	ND	ND	1,25	15000
Organic tin Δ	ND	ND	ND	ND	0,02	0.9
Zinc (Zn)	ND	ND	ND	ND	0,125	3750

Note: Dewaxed procedure was applied.

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n- Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)

ND

(Estimated Total Uncertainty)

=mg / kg

=Not Detected

= Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%

Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%

Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%

Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%

Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

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SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1:2021

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma-ICP_MS.

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category I
	Part 49	Part 50	Part 51	Part 52		
Antimony (Sb)	ND	ND	ND	ND	0,125	45
Arsenic (As)	ND	ND	ND	ND	0,125	3.8
Barium (Ba)	ND	ND	ND	ND	0,125	1500
Cadmium (Cd)	ND	ND	ND	ND	0,125	1.3
Chromium (III)	ND	ND	ND	ND	0,125	37.5
Chromium (VI)	ND	ND	ND	ND	0,0025	0.02
Lead (Pb)	ND	ND	ND	ND	0,125	2.0
Mercury (Hg)	ND	ND	ND	ND	0,0125	7.5
Selenium (Se)	ND	ND	ND	ND	0,125	37.5
Aluminium (Al)	0.4	11.5	0.3	1.4	0,125	2250
Boron (B)	ND	ND	ND	ND	0,125	1200
Cobalt (Co)	ND	ND	ND	ND	0,125	10.5
Copper (Cu)	ND	ND	ND	ND	0,125	622.5
Manganese (Mn)	3	1.7	4.7	2	0,125	1200
Nickel (Ni)	ND	ND	ND	ND	0,125	75
Strontium (Sr)	2.5	0.7	0.4	7.1	0,125	4500
Tin (Sn)	ND	ND	ND	ND	1,25	15000
Organic tin Δ	ND	ND	ND	ND	0,02	0.9
Zinc (Zn)	ND	ND	ND	ND	0,125	3750

Note: Dewaxed procedure was applied.

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n- Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)

ND

(Estimated Total Uncertainty)

=mg / kg

=Not Detected

= Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%

Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%

Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%

Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%

Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

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SAFETY OF TOYS – PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1:2021

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma (ICP-MS)

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category III
	Part 53	Part 54	Part 55			
Antimony (Sb)	0.2	0.2	ND		0,125	560
Arsenic (As)	ND	ND	ND		0,125	47
Barium (Ba)	8.4	19.5	13.7		0,125	18750
Cadmium (Cd)	ND	ND	ND		0,125	17
Chromium (III)	0.3	0.5	0.4		0,125	460
Chromium (VI)	ND	ND	ND		0,025	0,053
Lead (Pb)	1	1.6	1.1		0,125	23
Mercury (Hg)	ND	ND	ND		0,0125	94
Selenium (Se)	ND	ND	ND		0,125	460
Aluminium (Al)	397.2	583.8	423.5		0,125	28130
Boron (B)	4	8.1	5.7		0,125	15000
Cobalt (Co)	0.3	0.2	0.2		0,125	130
Copper (Cu)	2.2	3.1	2.3		0,125	7700
Manganese (Mn)	12.9	18.6	13.8		0,125	15000
Nickel (Ni)	0.4	0.5	0.4		0,125	930
Strontium (Sr)	42.8	69.3	50.4		0,125	56000
Tin (Sn)	ND	ND	ND		0,02	180000
Organic tin Δ	ND	ND	ND		0,125	12
Zinc (Zn)	18.2	18.9	16		0,125	46000

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n- Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)

ND

(Estimated Total Uncertainty)

=mg / kg

=Not Detected

= Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%

Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%

Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%

Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%

Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%

Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

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PHTHALATE CONTENT

INTERTEK IHTM AL.2.026 based on EN 14372 : 2004

Method By Gas Chromatographic- Mass Spectrometric (GC- MS) Analysis

	CAS No	Part 1&2&3	Part 4&5&6	Part 7&8&9
DIBUTYL PHTHALATE (DBP)	84-74-2	ND	ND	ND
DIETHYL HEXYL PHTHALATE (DEHP)	117-81-7	75 ppm	60 ppm	45 ppm
BENZYL BUTYL PHTHALATE (BBP)	85-68-7	ND	ND	ND
DI-ISO-BUTYL PHTHALATE (DIBP)	84-69-5	ND	ND	ND
SUM OF FOUR PHTHALATES		75 ppm	60 ppm	45 ppm
DI-ISO-NONYL PHTHALATE (DINP)	28553-12-0	ND	ND	ND
DI-N-OCTYL PHTHALATE (DNOP)	117-84-0	ND	ND	ND
DI-ISO-DECYL PHTHALATE (DIDP)	26761-40-0	ND	ND	ND
SUM OF THREE PHTHALATES		ND	ND	ND

	CAS No	Part 10&11&12	Part 13&27&28	Part 29&30&31
DIBUTYL PHTHALATE (DBP)	84-74-2	ND	ND	ND
DIETHYL HEXYL PHTHALATE (DEHP)	117-81-7	45 ppm	180 ppm	75 ppm
BENZYL BUTYL PHTHALATE (BBP)	85-68-7	ND	ND	ND
DI-ISO-BUTYL PHTHALATE (DIBP)	84-69-5	ND	ND	ND
SUM OF FOUR PHTHALATES		45 ppm	180 ppm	75 ppm
DI-ISO-NONYL PHTHALATE (DINP)	28553-12-0	ND	ND	ND
DI-N-OCTYL PHTHALATE (DNOP)	117-84-0	ND	ND	ND
DI-ISO-DECYL PHTHALATE (DIDP)	26761-40-0	ND	ND	ND
SUM OF THREE PHTHALATES		ND	ND	ND

	CAS No	Part 32&33&34	Part 35&36&37	Part 38&39
DIBUTYL PHTHALATE (DBP)	84-74-2	ND	ND	ND
DIETHYL HEXYL PHTHALATE (DEHP)	117-81-7	75 ppm	90 ppm	45 ppm
BENZYL BUTYL PHTHALATE (BBP)	85-68-7	ND	ND	ND
DI-ISO-BUTYL PHTHALATE (DIBP)	84-69-5	ND	ND	ND
SUM OF FOUR PHTHALATES		75 ppm	90 ppm	45 ppm
DI-ISO-NONYL PHTHALATE (DINP)	28553-12-0	ND	ND	ND
DI-N-OCTYL PHTHALATE (DNOP)	117-84-0	ND	ND	ND
DI-ISO-DECYL PHTHALATE (DIDP)	26761-40-0	ND	ND	ND
SUM OF THREE PHTHALATES		ND	ND	ND

ND =Not Detected
ppm (part per million) =mg / kg
Detection Limit =DIDP, DINP: 100 ppm, Other Phthalates: 10 ppm
LIMIT =DBP,DEHP,BBP,DIBP < 1000 ppm ; DINP, DNOP, DIDP < 1000 ppm

(Estimated Total Uncertainty = ±18%)

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POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ANALYSIS

IHTM AL.2.032 based on AfPS GS 2019:01 determined by GC-MS

	Part 1&2&3	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	0.5 ppm
2	Benzo (e) pyrene	Not Detected	0.5 ppm
3	Benzo (a) anthracene	Not Detected	0.5 ppm
4	Benzo (b) fluoranthene	Not Detected	0.5 ppm
5	Benzo (j) fluoranthene	Not Detected	0.5 ppm
6	Benzo (k) fluoranthene	Not Detected	0.5 ppm
7	Chrysene	Not Detected	0.5 ppm
8	Dibenzo (a,h) anthracene	Not Detected	0.5 ppm

	Part 4&5&6	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	0.5 ppm
2	Benzo (e) pyrene	Not Detected	0.5 ppm
3	Benzo (a) anthracene	Not Detected	0.5 ppm
4	Benzo (b) fluoranthene	Not Detected	0.5 ppm
5	Benzo (j) fluoranthene	Not Detected	0.5 ppm
6	Benzo (k) fluoranthene	Not Detected	0.5 ppm
7	Chrysene	Not Detected	0.5 ppm
8	Dibenzo (a,h) anthracene	Not Detected	0.5 ppm

	Part 7&8&9	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	0.5 ppm
2	Benzo (e) pyrene	Not Detected	0.5 ppm
3	Benzo (a) anthracene	Not Detected	0.5 ppm
4	Benzo (b) fluoranthene	Not Detected	0.5 ppm
5	Benzo (j) fluoranthene	Not Detected	0.5 ppm
6	Benzo (k) fluoranthene	Not Detected	0.5 ppm
7	Chrysene	Not Detected	0.5 ppm
8	Dibenzo (a,h) anthracene	Not Detected	0.5 ppm

ppm (part per million)

Detection Limit

Estimated Total Uncertainty

= mg / kg

= 0.1 ppm

= Textile:±15%, Plastic:±17%

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POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ANALYSIS

IHTM AL.2.032 based on AfPS GS 2019:01 determined by GC-MS

	Part 10&11&12	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	0.5 ppm
2	Benzo (e) pyrene	Not Detected	0.5 ppm
3	Benzo (a) anthracene	Not Detected	0.5 ppm
4	Benzo (b) fluoranthene	Not Detected	0.5 ppm
5	Benzo (j) fluoranthene	Not Detected	0.5 ppm
6	Benzo (k) fluoranthene	Not Detected	0.5 ppm
7	Chrysene	Not Detected	0.5 ppm
8	Dibenzo (a,h) anthracene	Not Detected	0.5 ppm

	Part 13&27&28	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	0.5 ppm
2	Benzo (e) pyrene	Not Detected	0.5 ppm
3	Benzo (a) anthracene	Not Detected	0.5 ppm
4	Benzo (b) fluoranthene	Not Detected	0.5 ppm
5	Benzo (j) fluoranthene	Not Detected	0.5 ppm
6	Benzo (k) fluoranthene	Not Detected	0.5 ppm
7	Chrysene	Not Detected	0.5 ppm
8	Dibenzo (a,h) anthracene	Not Detected	0.5 ppm

	Part 29&30&31	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	0.5 ppm
2	Benzo (e) pyrene	Not Detected	0.5 ppm
3	Benzo (a) anthracene	Not Detected	0.5 ppm
4	Benzo (b) fluoranthene	Not Detected	0.5 ppm
5	Benzo (j) fluoranthene	Not Detected	0.5 ppm
6	Benzo (k) fluoranthene	Not Detected	0.5 ppm
7	Chrysene	Not Detected	0.5 ppm
8	Dibenzo (a,h) anthracene	Not Detected	0.5 ppm

ppm (part per million)

= mg / kg

Detection Limit

= 0.1 ppm

Estimated Total Uncertainty

= Textile:±15%, Plastic:±17%

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POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ANALYSIS

IHTM AL.2.032 based on AfPS GS 2019:01 determined by GC-MS

	Part 32&33&34	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	0.5 ppm
2	Benzo (e) pyrene	Not Detected	0.5 ppm
3	Benzo (a) anthracene	Not Detected	0.5 ppm
4	Benzo (b) fluoranthene	Not Detected	0.5 ppm
5	Benzo (j) fluoranthene	Not Detected	0.5 ppm
6	Benzo (k) fluoranthene	Not Detected	0.5 ppm
7	Chrysene	Not Detected	0.5 ppm
8	Dibenzo (a,h) anthracene	Not Detected	0.5 ppm

	Part 35&36&37	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	0.5 ppm
2	Benzo (e) pyrene	Not Detected	0.5 ppm
3	Benzo (a) anthracene	Not Detected	0.5 ppm
4	Benzo (b) fluoranthene	Not Detected	0.5 ppm
5	Benzo (j) fluoranthene	Not Detected	0.5 ppm
6	Benzo (k) fluoranthene	Not Detected	0.5 ppm
7	Chrysene	Not Detected	0.5 ppm
8	Dibenzo (a,h) anthracene	Not Detected	0.5 ppm

	Part 38&39	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	0.5 ppm
2	Benzo (e) pyrene	Not Detected	0.5 ppm
3	Benzo (a) anthracene	Not Detected	0.5 ppm
4	Benzo (b) fluoranthene	Not Detected	0.5 ppm
5	Benzo (j) fluoranthene	Not Detected	0.5 ppm
6	Benzo (k) fluoranthene	Not Detected	0.5 ppm
7	Chrysene	Not Detected	0.5 ppm
8	Dibenzo (a,h) anthracene	Not Detected	0.5 ppm

ppm (part per million)

= mg / kg

Detection Limit

= 0.1 ppm

Estimated Total Uncertainty

= Textile:±15%, Plastic:±17%

Intertek Test Hizmetleri A.S.

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SAMPLE PHOTOS

Sample 1



Sample 2



Sample 3



END OF TEST REPORT