

TEST REPORT

Report No: AR-25-Q5-020054-01
 Customer: KS INNOVATIVE SDN. BHD.
 Date of Issue: 28/11/2025



Batch No: EUMY04-00020255

To: **KS INNOVATIVE SDN. BHD.**
 No.18, Jalan TK5/41
 Kinrara Ind Park, 13KM Jln Puchong,
 47100 Puchong
 Selangor MALAYSIA

Attn: Steven Chen

Date Sample Received: 12/11/2025
 Date of Testing: 21/11/2025 to 28/11/2025

The following sample(s) was(were) identified by the customer as:

187-2025-11001306: Coloured Sand Sample A	187-2025-11001307: Coloured Sand Sample B	187-2025-11001308: Coloured Sand Sample C	187-2025-11001309: Coloured Sand Sample D	187-2025-11001310: Coloured Sand Sample E
187-2025-11001311: Coloured Sand Sample F	187-2025-11001312: Coloured Sand Sample G	187-2025-11001313: Coloured Sand Sample H	187-2025-11001314: Coloured Sand Sample I	187-2025-11001315: Coloured Sand Sample J
187-2025-11001316: Sand Art Card				

This 1 page(s) of report and its attachment(s), if relevant, has/have been validated by



ChM. Muhammad Nur Faaizi bin Badarudin , B. Sc (Hons)
 Industrial Chemistry
 IKM Registered Chemist
 Registered No.:M/5359/7938/18/20

EXPLANATORY NOTE

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 The result(s) relate(s) only to the item(s) tested.
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 - Test result is externally provided outside Eurofins group but is not accredited.
- N/A** means not applicable.
<LOD means not detected at or below the Limit of Detection (LOD).
<LOQ means below the Limit of Quantification (LOQ).

- End of Report -

TEST REPORT

APPLICANT : KS INNOVATIVE SDN. BHD.
ADDRESS : NO.18, JALAN TK5/41, KINRARA IND PARK, 13KM JLN
 PUCHONG, 47100 PUCHONG SELANGOR
TESTED SAMPLE DESCRIPTION : COLOUR SAND & SAND ART CARD
TESTED ITEM NO. : 187-2025-11001306 - 11001316
AGE REQUESTED ON APPLICATION FORM : NOT PRESENT
SAMPLE RECEIVED DATE : 19-Nov-2025
TEST PERIOD : 21-Nov-2025 to 26-Nov-2025

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	RESULT
EN 71 - 3: 2019 + A1: 2021 Safety of Toys - Migration of Certain Elements	Pass
EN 71 - 3: 2019 + A2: 2024 Safety of Toys - Migration of Certain Elements	Pass

The above sample(s) and sample information was/were submitted and identified on behalf of the applicant. Eurofins will not be liable for the authenticity of the information. This test report is valid for the tested sample only. Without permission of the test center this test report is not permitted to be duplicated in extracts.

Unless otherwise required by the applicant or method/regulation, decision rule in this report did not consider the measurement uncertainty.

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

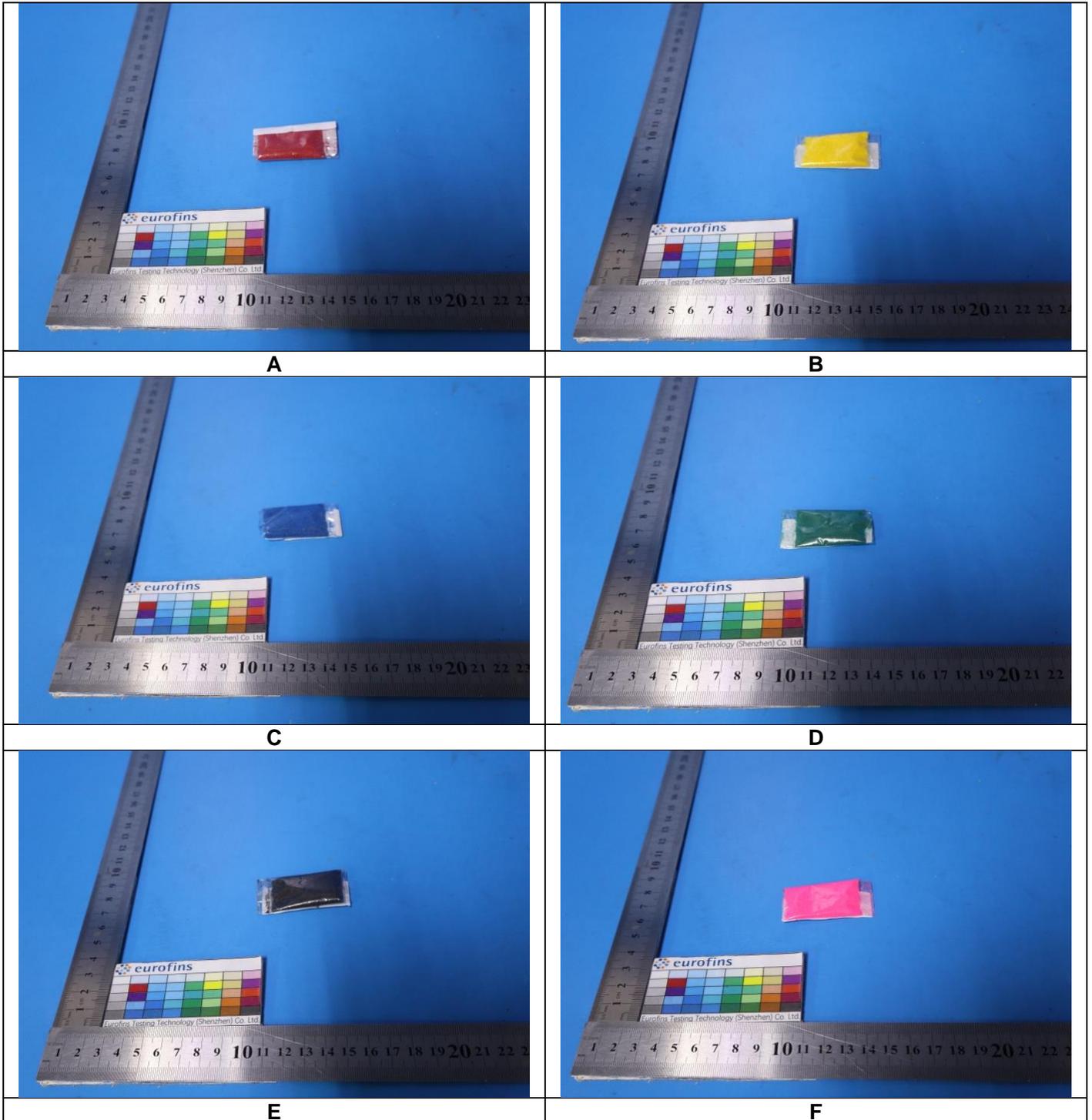
SIGNED FOR AND ON BEHALF OF
EUROFINS TESTING TECHNOLOGY (SHENZHEN) CO., LTD.



Coco Luo
Senior Lab Manager



TESTED SAMPLE PHOTO(S)



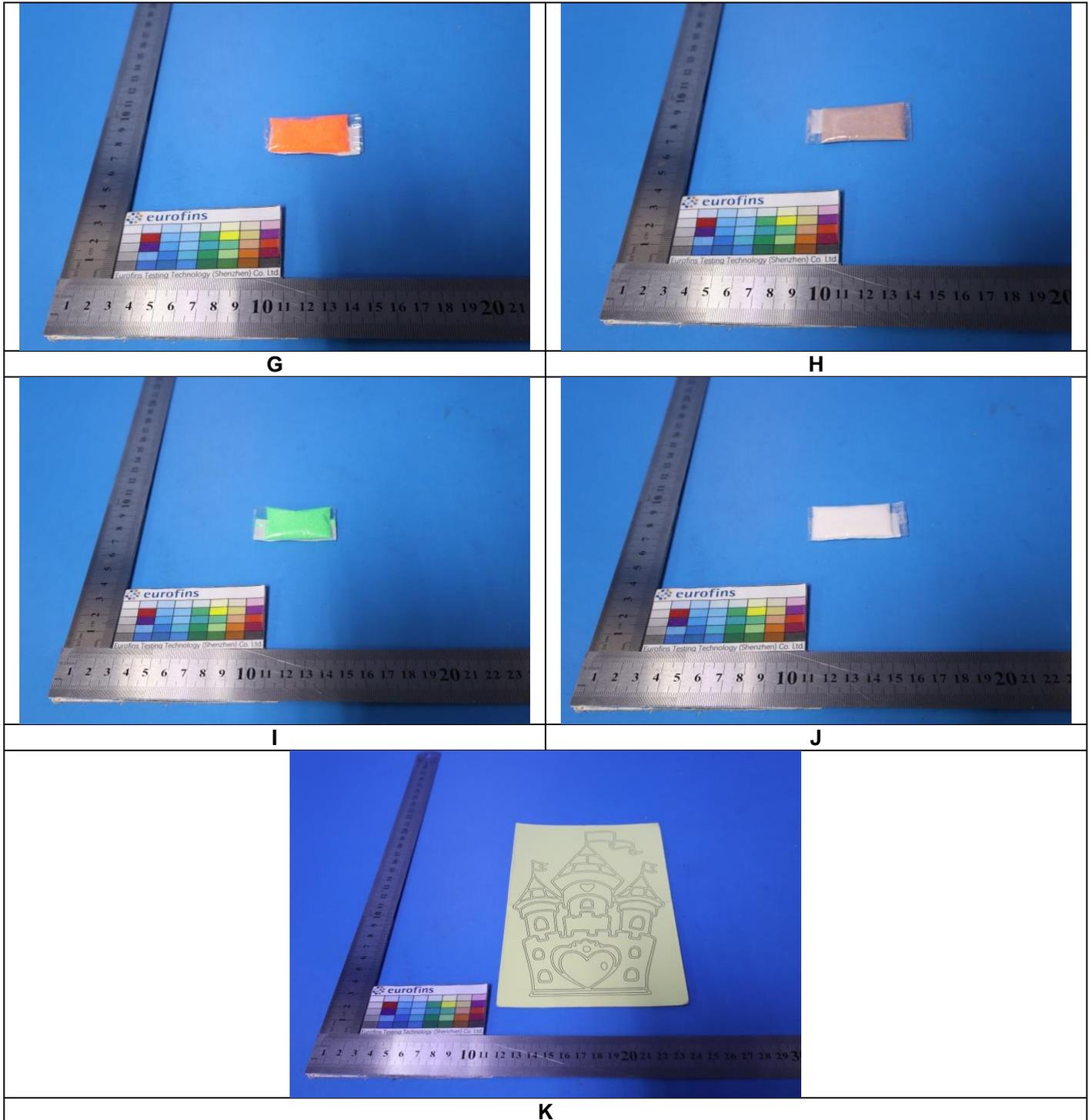
EFSN25111658-C-0101

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TESTED SAMPLE PHOTO(S)



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COMPONENT LIST

A 187-2025-11001306
 B 187-2025-11001307
 C 187-2025-11001308
 D 187-2025-11001309
 E 187-2025-11001310
 F 187-2025-11001311
 G 187-2025-11001312
 H 187-2025-11001313
 I 187-2025-11001314
 J 187-2025-11001315
 K 187-2025-11001316

Component No.	Component	Material	Color	Sample No.
1	Sand	Sand	Red	A
2	Sand	Sand	Yellow	B
3	Sand	Sand	Deep blue	C
4	Sand	Sand	Green	D
5	Sand	Sand	Black	E
6	Sand	Sand	Pink	F
7	Sand	Sand	Orange	G
8	Sand	Sand	Brownness	H
9	Sand	Sand	Peak green	I
10	Sand	Sand	White	J
11	Card	Paper/printing	Yellow/black	K
12	Double sides adhesive tape	Paper/glue	White and brown/transparent	K

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TEST RESULT

EN 71 - 3: 2019 + A1: 2021 Migration of Certain Elements(Category I)

Test Request: EN 71 - 3: 2019 + A1: 2021 Safety of Toys - Migration of Certain Elements

Test Method: EN 71 - 3: 2019 + A1: 2021: Migration of certain elements.

Test Item(s):	Unit	Result							
		1	2	3	4	5	6	7	8
Aluminium(Al)	mg/kg	82	ND	43	37	50	ND	ND	42
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Barium(Ba)	mg/kg	281	ND	ND	ND	ND	ND	ND	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Copper(Cu)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Lead(Pb)	mg/kg	ND	ND	ND	1	ND	ND	ND	ND
Manganese(Mn)	mg/kg	ND	ND	ND	ND	ND	ND	10	ND
Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Strontium(Sr)	mg/kg	ND	ND	ND	ND	ND	ND	10	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	0.41
Zinc(Zn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium(Cr)	mg/kg	0.09	ND	0.04	0.03	0.06	ND	ND	0.04
Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (III)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

Test Item(s):	Unit	Result	
		9	10
Aluminium(Al)	mg/kg	ND	ND
Antimony(Sb)	mg/kg	ND	ND
Arsenic(As)	mg/kg	ND	ND
Barium(Ba)	mg/kg	ND	ND
Boron(B)	mg/kg	ND	ND
Cadmium (Cd)	mg/kg	ND	ND
Cobalt(Co)	mg/kg	ND	ND
Copper(Cu)	mg/kg	ND	ND
Lead(Pb)	mg/kg	ND	ND
Manganese(Mn)	mg/kg	ND	ND
Mercury (Hg)	mg/kg	ND	ND
Nickel(Ni)	mg/kg	ND	ND
Selenium(Se)	mg/kg	ND	ND
Strontium(Sr)	mg/kg	ND	ND
Tin(Sn)	mg/kg	ND	ND
Zinc(Zn)	mg/kg	ND	ND
Chromium(Cr)	mg/kg	0.01	ND
Organic Tin	mg/kg	ND	ND
Chromium (VI)	mg/kg	ND	ND
Chromium (III)	mg/kg	ND	ND

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TEST RESULT

- Note:
- 1 mg/kg = 1 ppm = 0.0001%
 - ND = Not Detected
 - MDL = Method Detection Limit
 - If migration of chromium exceeded the screening limit of Chromium (VI), the migration of Chromium (VI) was verified.
 - If migration of tin exceeded the screening limit of organic tin, the migration of organic tin was verified.
 - Migration of organic tin is calculated by adding the migration values expressed as tributyl tin for all the single organic tin compounds.

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TEST RESULT

Limits – MDLs per category type:

Test Item(s):	Unit	Limit	MDL	Limit	MDL	Limit	MDL
Category Type		I		II		III	
Soluble Aluminium (Al)	mg/kg	2250	10	560	10	28130	10
Soluble Antimony (Sb)	mg/kg	45	10	11.3	5	560	10
Soluble Arsenic (As)	mg/kg	3.8	0.5	0.9	0.4	47	10
Soluble Barium (Ba)	mg/kg	1500	10	375	10	18750	10
Soluble Boron (B)	mg/kg	1200	10	300	10	15000	10
Soluble Cadmium (Cd)	mg/kg	1.3	0.5	0.3	0.1	17	8
Soluble Cobalt (Co)	mg/kg	10.5	1	2.6	1	130	10
Soluble Copper(Cu)	mg/kg	622.5	10	156	10	7700	10
Soluble Lead (Pb)	mg/kg	2.0	1	0.5	0.2	23	10
Soluble Manganese (Mn)	mg/kg	1200	10	300	10	15000	10
Soluble Mercury (Hg)	mg/kg	7.5	1	1.9	0.8	94	10
Soluble Nickel (Ni)	mg/kg	75	10	18.8	9	930	10
Soluble Selenium (Se)	mg/kg	37.5	1	9.4	1	460	10
Soluble Strontium (Sr)	mg/kg	4500	10	1125	10	56000	10
Soluble Tin (Sn)	mg/kg	15000	0.24	3750	0.05	180000	3.2
Soluble Zinc (Zn)	mg/kg	3750	10	938	10	46000	10
Soluble Chromium	mg/kg	-	0.01	-	0.0025	-	0.025
Soluble Organic Tin	mg/kg	0.9	0.1	0.2	0.05	12	0.1
Soluble Chromium VI (Cr VI)	mg/kg	0.02	0.01	0.005	0.0025	0.053	0.025
Soluble Chromium III (Cr III)	mg/kg	37.5	5	9.4	4	460	5

Category I: dry, brittle, powder-like or pliable toy material

Category II: liquid or sticky toy material

Category III: scraped-off toy material

“-” = Not Regulated

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TEST RESULT

EN 71 - 3 : 2019 + A1: 2021 Migration of Certain Elements(Category III)

Test Request: EN 71 - 3: 2019 + A1: 2021 Safety of Toys - Migration of Certain Elements

Test Method: EN 71 - 3: 2019 + A1: 2021: Migration of certain elements.

Test Item(s):	Unit	Result	
		11	12
Aluminium(Al)	mg/kg	ND	144
Antimony(Sb)	mg/kg	ND	ND
Arsenic(As)	mg/kg	ND	ND
Barium(Ba)	mg/kg	ND	ND
Boron(B)	mg/kg	ND	ND
Cadmium(Cd)	mg/kg	ND	ND
Cobalt(Co)	mg/kg	ND	ND
Copper(Cu)	mg/kg	ND	ND
Lead(Pb)	mg/kg	ND	ND
Manganese(Mn)	mg/kg	ND	22
Mercury(Hg)	mg/kg	ND	ND
Nickel(Ni)	mg/kg	ND	ND
Selenium(Se)	mg/kg	ND	ND
Strontium(Sr)	mg/kg	17	31
Tin(Sn)	mg/kg	ND	ND
Zinc(Zn)	mg/kg	ND	13
Chromium(Cr)	mg/kg	0.196	0.199
Organic Tin	mg/kg	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND

- Note:
- 1 mg/kg = 1 ppm = 0.0001%
 - ND = Not Detected
 - MDL = Method Detection Limit
 - If migration of chromium exceeded the screening limit of Chromium (VI), the migration of Chromium (VI) was verified.
 - If migration of tin exceeded the screening limit of organic tin, the migration of organic tin was verified.
 - Migration of organic tin is calculated by adding the migration values expressed as tributyl tin for all the single organic tin compounds.

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TEST RESULT

Limits – MDLs per category type:

Test Item(s):	Unit	Limit	MDL	Limit	MDL	Limit	MDL
Category Type		I		II		III	
Soluble Aluminium (Al)	mg/kg	2250	10	560	10	28130	10
Soluble Antimony (Sb)	mg/kg	45	10	11.3	5	560	10
Soluble Arsenic (As)	mg/kg	3.8	0.5	0.9	0.4	47	10
Soluble Barium (Ba)	mg/kg	1500	10	375	10	18750	10
Soluble Boron (B)	mg/kg	1200	10	300	10	15000	10
Soluble Cadmium (Cd)	mg/kg	1.3	0.5	0.3	0.1	17	8
Soluble Cobalt (Co)	mg/kg	10.5	1	2.6	1	130	10
Soluble Copper(Cu)	mg/kg	622.5	10	156	10	7700	10
Soluble Lead (Pb)	mg/kg	2.0	1	0.5	0.2	23	10
Soluble Manganese (Mn)	mg/kg	1200	10	300	10	15000	10
Soluble Mercury (Hg)	mg/kg	7.5	1	1.9	0.8	94	10
Soluble Nickel (Ni)	mg/kg	75	10	18.8	9	930	10
Soluble Selenium (Se)	mg/kg	37.5	1	9.4	1	460	10
Soluble Strontium (Sr)	mg/kg	4500	10	1125	10	56000	10
Soluble Tin (Sn)	mg/kg	15000	0.24	3750	0.05	180000	3.2
Soluble Zinc (Zn)	mg/kg	3750	10	938	10	46000	10
Soluble Chromium	mg/kg	-	0.01	-	0.0025	-	0.025
Soluble Organic Tin	mg/kg	0.9	0.1	0.2	0.05	12	0.1
Soluble Chromium VI (Cr VI)	mg/kg	0.02	0.01	0.005	0.0025	0.053	0.025
Soluble Chromium III (Cr III)	mg/kg	37.5	5	9.4	4	460	5

Category I: dry, brittle, powder-like or pliable toy material

Category II: liquid or sticky toy material

Category III: scraped-off toy material

“-” = Not Regulated

TO BE CONTINUED

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TEST RESULT

EN 71 - 3: 2019 + A2: 2024 Migration of Certain Elements(Category I)

Test Request: EN 71 - 3: 2019 + A2: 2024 Safety of Toys - Migration of Certain Elements

Test Method: EN 71 - 3: 2019 + A2: 2024: Migration of certain elements.

Test Item(s):	Unit	Result							
		1	2	3	4	5	6	7	8
Aluminium(Al)	mg/kg	82	ND	43	37	50	ND	ND	42
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Barium(Ba)	mg/kg	281	ND	ND	ND	ND	ND	ND	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Copper(Cu)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Lead(Pb)	mg/kg	ND	ND	ND	1	ND	ND	ND	ND
Manganese(Mn)	mg/kg	ND	ND	ND	ND	ND	ND	10	ND
Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Strontium(Sr)	mg/kg	ND	ND	ND	ND	ND	ND	10	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	0.41
Zinc(Zn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium(Cr)	mg/kg	0.09	ND	0.04	0.03	0.06	ND	ND	0.04
Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (III)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

Test Item(s):	Unit	Result	
		9	10
Aluminium(Al)	mg/kg	ND	ND
Antimony(Sb)	mg/kg	ND	ND
Arsenic(As)	mg/kg	ND	ND
Barium(Ba)	mg/kg	ND	ND
Boron(B)	mg/kg	ND	ND
Cadmium (Cd)	mg/kg	ND	ND
Cobalt(Co)	mg/kg	ND	ND
Copper(Cu)	mg/kg	ND	ND
Lead(Pb)	mg/kg	ND	ND
Manganese(Mn)	mg/kg	ND	ND
Mercury (Hg)	mg/kg	ND	ND
Nickel(Ni)	mg/kg	ND	ND
Selenium(Se)	mg/kg	ND	ND
Strontium(Sr)	mg/kg	ND	ND
Tin(Sn)	mg/kg	ND	ND
Zinc(Zn)	mg/kg	ND	ND
Chromium(Cr)	mg/kg	0.01	ND
Organic Tin	mg/kg	ND	ND
Chromium (VI)	mg/kg	ND	ND
Chromium (III)	mg/kg	ND	ND

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 - MDL = Method Detection Limit
 - If migration of chromium exceeded the screening limit of Chromium (VI), the migration of Chromium (VI) was verified.
 - If migration of tin exceeded the screening limit of organic tin, the migration of organic tin was verified.
 - Migration of organic tin is calculated by adding the migration values expressed as tributyl tin for all the single organic tin compounds.

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Limits – MDLs per category type:

Test Item(s):	Unit	Limit	MDL	Limit	MDL	Limit	MDL
Category Type		I		II		III	
Soluble Aluminium (Al)	mg/kg	2250	10	560	10	28130	10
Soluble Antimony (Sb)	mg/kg	45	10	11.3	5	560	10
Soluble Arsenic (As)	mg/kg	3.8	0.5	0.9	0.4	47	10
Soluble Barium (Ba)	mg/kg	1500	10	375	10	18750	10
Soluble Boron (B)	mg/kg	1200	10	300	10	15000	10
Soluble Cadmium (Cd)	mg/kg	1.3	0.5	0.3	0.1	17	8
Soluble Cobalt (Co)	mg/kg	10.5	1	2.6	1	130	10
Soluble Copper(Cu)	mg/kg	622.5	10	156	10	7700	10
Soluble Lead (Pb)	mg/kg	2.0	1	0.5	0.2	23	10
Soluble Manganese (Mn)	mg/kg	1200	10	300	10	15000	10
Soluble Mercury (Hg)	mg/kg	7.5	1	1.9	0.8	94	10
Soluble Nickel (Ni)	mg/kg	75	10	18.8	9	930	10
Soluble Selenium (Se)	mg/kg	37.5	1	9.4	1	460	10
Soluble Strontium (Sr)	mg/kg	4500	10	1125	10	56000	10
Soluble Tin (Sn)	mg/kg	15000	0.24	3750	0.05	180000	3.2
Soluble Zinc (Zn)	mg/kg	3750	10	938	10	46000	10
Soluble Chromium	mg/kg	-	0.01	-	0.0025	-	0.025
Soluble Organic Tin	mg/kg	0.9	0.1	0.2	0.05	12	0.1
Soluble Chromium VI (Cr VI)	mg/kg	0.02	0.01	0.005	0.0025	0.053	0.025
Soluble Chromium III (Cr III)	mg/kg	37.5	5	9.4	4	460	5

Category I: dry, brittle, powder-like or pliable toy material

Category II: liquid or sticky toy material

Category III: scraped-off toy material

“-” = Not Regulated

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TEST RESULT

EN 71 - 3 : 2019 + A2: 2024 Migration of Certain Elements(Category III)

Test Request: EN 71 - 3: 2019 + A2: 2024 Safety of Toys - Migration of Certain Elements

Test Method: EN 71 - 3: 2019 + A2: 2024: Migration of certain elements.

Test Item(s):	Unit	Result	
		11	12
Aluminium(Al)	mg/kg	ND	144
Antimony(Sb)	mg/kg	ND	ND
Arsenic(As)	mg/kg	ND	ND
Barium(Ba)	mg/kg	ND	ND
Boron(B)	mg/kg	ND	ND
Cadmium(Cd)	mg/kg	ND	ND
Cobalt(Co)	mg/kg	ND	ND
Copper(Cu)	mg/kg	ND	ND
Lead(Pb)	mg/kg	ND	ND
Manganese(Mn)	mg/kg	ND	22
Mercury(Hg)	mg/kg	ND	ND
Nickel(Ni)	mg/kg	ND	ND
Selenium(Se)	mg/kg	ND	ND
Strontium(Sr)	mg/kg	17	31
Tin(Sn)	mg/kg	ND	ND
Zinc(Zn)	mg/kg	ND	13
Chromium(Cr)	mg/kg	0.196	0.199
Organic Tin	mg/kg	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND

- Note:
- 1 mg/kg = 1 ppm = 0.0001%
 - ND = Not Detected
 - MDL = Method Detection Limit
 - If migration of chromium exceeded the screening limit of Chromium (VI), the migration of Chromium (VI) was verified.
 - If migration of tin exceeded the screening limit of organic tin, the migration of organic tin was verified.
 - Migration of organic tin is calculated by adding the migration values expressed as tributyl tin for all the single organic tin compounds.

TO BE CONTINUED

Eurofins Testing Technology (Shenzhen) Co., Ltd.

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TEST RESULT

Limits – MDLs per category type:

Test Item(s):	Unit	Limit	MDL	Limit	MDL	Limit	MDL
Category Type		I		II		III	
Soluble Aluminium (Al)	mg/kg	2250	10	560	10	28130	10
Soluble Antimony (Sb)	mg/kg	45	10	11.3	5	560	10
Soluble Arsenic (As)	mg/kg	3.8	0.5	0.9	0.4	47	10
Soluble Barium (Ba)	mg/kg	1500	10	375	10	18750	10
Soluble Boron (B)	mg/kg	1200	10	300	10	15000	10
Soluble Cadmium (Cd)	mg/kg	1.3	0.5	0.3	0.1	17	8
Soluble Cobalt (Co)	mg/kg	10.5	1	2.6	1	130	10
Soluble Copper(Cu)	mg/kg	622.5	10	156	10	7700	10
Soluble Lead (Pb)	mg/kg	2.0	1	0.5	0.2	23	10
Soluble Manganese (Mn)	mg/kg	1200	10	300	10	15000	10
Soluble Mercury (Hg)	mg/kg	7.5	1	1.9	0.8	94	10
Soluble Nickel (Ni)	mg/kg	75	10	18.8	9	930	10
Soluble Selenium (Se)	mg/kg	37.5	1	9.4	1	460	10
Soluble Strontium (Sr)	mg/kg	4500	10	1125	10	56000	10
Soluble Tin (Sn)	mg/kg	15000	0.24	3750	0.05	180000	3.2
Soluble Zinc (Zn)	mg/kg	3750	10	938	10	46000	10
Soluble Chromium	mg/kg	-	0.01	-	0.0025	-	0.025
Soluble Organic Tin	mg/kg	0.9	0.1	0.2	0.05	12	0.1
Soluble Chromium VI (Cr VI)	mg/kg	0.02	0.01	0.005	0.0025	0.053	0.025
Soluble Chromium III (Cr III)	mg/kg	37.5	5	9.4	4	460	5

Category I: dry, brittle, powder-like or pliable toy material

Category II: liquid or sticky toy material

Category III: scraped-off toy material

“-” = Not Regulated

Other Information / Remark:

N/A

END OF THE REPORT

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