



# TEST REPORT



AB-0505-T

72232750158

10-23

**LAB LOCATION: TURKEY**  
**LAB NO.: (7223)275-0158**  
**SERVICE TYPE: Regular**  
**DATE IN: October 03, 2023**  
**DATE OUT: October 10, 2023**

**MATERIAL SUBMITTED** : TC TİCARET BAKANLIĞI İSTANBUL GÜMRÜK VE DIŞ  
TİCARET BÖLGE MÜDÜRLÜĞÜ İSTANBUL ÜRÜN  
GÜVENLİĞİ DENETİMLERİ MÜDÜRLÜĞÜ-1 (Avrupa)  
(Attn: Mustafa BİSKİN)

**IMPORTER COMPANY** : BIGPOINT KIRTASIYE SANAYI VE TİCARET LTD. STI.  
**MODEL NO** : BP741-24  
**COVER LETTER NO** : E-98552271-554.01.01-00089495303  
**SAMPLE RECORD NO** : /  
**APPLICATION NO** : A25256421  
**SUPPLIER REFERENCE** : /  
**TESTED AGE GRADE** : Over 36 M  
**LABELLED AGE GRADE** : Over 36 M  
**APPLIED AGE GRADE** : /  
**SAMPLE DESCRIPTION** : **Sample A: TOY**  
**BRAND of SAMPLES** : /  
**SUBMITTED CARE** : /  
**INSTRUCTION** : /  
**GENERAL CONCLUSION** : **PASS**

C/N GK/GGY

BV CPS Test Laboratuvarları Ltd. Sti. accredited by TÜRKAK under registration number AB-0505-T for TS EN ISO/IEC 17025:2017 as test laboratory. Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

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**SUMMARY OF TEST RESULTS**

<b>TEST PERFORMED</b>	<b>PASS</b>	<b>FAIL</b>
EN 71-1: 2014 + A1:2018 Physical and Mechanical Properties* (See Remark for Accreditation Scope)	X	
EN 71-2: 2020 Flammability*	X	
EN 71-3:2019 + A1:2021 Migration of Certain Elements*	X	
EN 71-3:2019 + A1:2021 Migration of Certain Elements Chromium III and Chromium VI Confirmation*	X	
Polycyclic Aromatic Hydrocarbons (PAHs)*	X	
Phthalates*	X	
<b>* TURKAK Accredited- See Appendix A</b>		

\*= The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. Unless otherwise is specified, the uncertainty of measurement has not been taken into account when assessing pass/fail of the sample against the requirements of the standard. In case consideration of measurement uncertainties when assessing pass/ fail limits, some results may be in borderline. Information on uncertainty is contained in appendix A on this report.

**REMARK:**

I. If there are questions or concerns on this report, please contact:

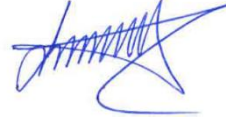
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**Bureau Veritas Consumer Products Services Turkey  
BV CPS Test Lab. Ltd. Sti.**



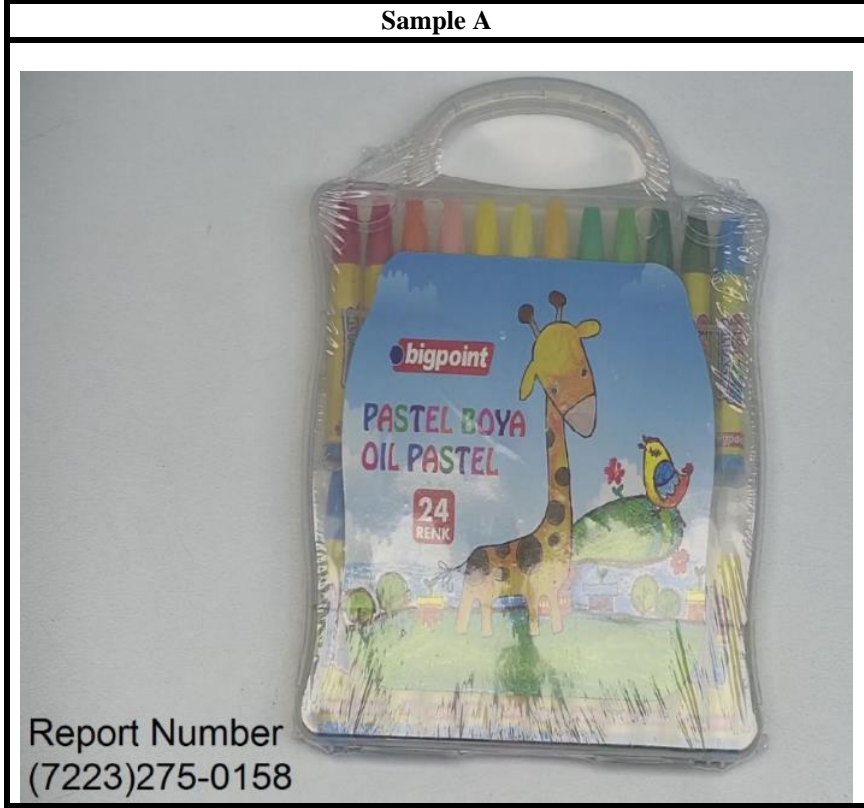
**Gaye Gizem Yıldız  
Asst. Client Team Lead**



**Hasan Altıngül  
Operation Manager - CS & Support**

**-Photos of the Submitted Sample-**

**Sample A**



## TEST RESULT

### EN 71-1: 2014 + A1:2018 PHYSICAL AND MECHANICAL PROPERTIES OF TOYS

Clause	Clause Description	Test Method	RESULT
<b>4</b>	<b>General Requirements</b>	-	<b>Sample A</b>
4.1	Material Cleanliness	-	Pass
4.7 & 7.6	Edges	8.11	Pass
4.8 & 7.6	Points And Metallic Wires	8.12, 8.13	Pass
4.8e	Splinters	8.12, 8.13	Pass
	<b>WARNINGS, INSTRUCTIONS FOR USE</b>		
7	Ce Mark	-	Present
7	Manufacturer/ Importer Name And Address		Present
7	Product Identification	-	Present
7.1	General	-	Present
7.2	Toys Not Intended For Children Under 36 Months	-	Present

Remark: The methods and clauses indicated with sign “#” are not at the scope of ISO 17025 accreditation.

## TEST RESULT

### EN 71-2:2020 FLAMMABILITY OF TOYS

Clause	Clause Description	RESULT Sample A
4.1	General Requirements	Pass

Remark: Flammable Gases and Liquids samples which have over 15 ml volume are not at the scope of ISO 17025 accreditation

**SAMPLE DESCRIPTION ASSIGNED BY LABORATORY:**

<b>Test Item</b>	<b>Sample Description</b>
I001	RED CRAYON
I002	BORDEAUX CRAYON
I003	ORANGE CRAYON
I004	ECRU CRAYON
I005	DARK YELLOW CRAYON
I006	LIGHT YELLOW CRAYON
I007	LIGHT ORANGE CRAYON
I008	LIGHT GREEN CRAYON
I009	PISTACHIO GREEN CRAYON
I010	LIGHT GREEN CRAYON
I011	DARK GREEN CRAYON
I012	TURQUOISE CRAYON
I013	LIGHT BLUE CRAYON
I014	DARK BLUE CRAYON
I015	LILAC CRAYON
I016	PURPLE CRAYON
I017	BERRY CRAYON
I018	PINK CRAYON
I019	NAVY CRAYON
I020	BEIGE CRAYON
I021	BROWN CRAYON
I022	GREY CRAYON
I023	BLACK CRAYON
I024	WHITE CRAYON
I025	YELLOW PAPER
I026	COLOR OIL PASTEL PRINT
I027	BIGPOINT PRINT PAPER
I028	BLUE PAPER
I029	TRANSPARENT BOX
I030	CLOSED PLASTIC
I031	BLUE PRINT ON STICKER
I032	BIGPOINT PRINT ON STICKER
I033	MULTICOLOR LETTER PRINT ON STICKER
I034	GIRRAFE PRINT ON STICKER
I035	BIRD PRINT ON STICKER
I036	GREEN PRINT ON STICKER
I037	BLUE, PINK, YELLOW ORANGE PRINT ON STICKER
I038	ANIMAL PRINT ON STICKER
I039	NAVY INFORMATION PRINT
I040	RED, BLACK, WHITE ONFIRMATION PRINT
I041	MULTICOLORED STICKER
I042	YELLOW PAPER MULTICOLORED

## TEST RESULT

### EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

**Test Method** : European Standard EN 71-3:2019+A1:2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Dry, brittle, powder-like or pliable toy material
	Type II	Liquid or sticky toy material
	Type III	Scraped-off toy material

Test Item(s)	Unit	Req.	Result				
			I001	I002	I003	I004	I007
Type	-	I	I	I	I	I	I
Parameter	-	-	-	-	-	-	-
Aluminium (Al)	mg/kg	2250	ND	ND	2.83	ND	3.50
Antimony (Sb)	mg/kg	45	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	3.8	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	1500	2.95	5.91	5.04	ND	ND
Boron (B)	mg/kg	1200	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1.3	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	37.5	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.02	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	10.5	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	622.5	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	2.0	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	1200	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	7.5	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	75	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	37.5	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	4500	ND	2.21	3.19	ND	3.43
Tin (Sn)	mg/kg	15000	ND	ND	ND	ND	ND
Organic tin	mg/kg	0.9	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	3750	ND	ND	ND	ND	ND
<b>Conclusion</b>	-	-	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Note:

ND = Not detected  
 mg/kg = milligram(s) per kilogram  
 10 000 mg/kg = 1 %  
 Detection Limit ( mg/kg ) :  
 For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ; Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2  
 For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

“>” = Greater than  
 mg/kg = ppm = part(s) per million  
 % = percent

Conc. = Concentration  
 mcg/sq. m = microgram per square metre

Remark:

## TEST RESULT

### EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

**Test Method** : European Standard EN 71-3:2019+A1:2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Dry, brittle, powder-like or pliable toy material
	Type II	Liquid or sticky toy material
	Type III	Scraped-off toy material

Test Item(s)	Unit	Req.	Result				
			I008	I009	I010	I011	I013
Type	-	I	I	I	I	I	I
Parameter	-	-	-	-	-	-	-
Aluminium (Al)	mg/kg	2250	ND	5.55	3.03	ND	ND
Antimony (Sb)	mg/kg	45	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	3.8	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	1500	ND	ND	ND	ND	ND
Boron (B)	mg/kg	1200	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1.3	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	37.5	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.02	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	10.5	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	622.5	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	2.0	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	1200	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	7.5	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	75	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	37.5	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	4500	2.27	7.82	3.06	ND	2.24
Tin (Sn)	mg/kg	15000	ND	ND	ND	ND	ND
Organic tin	mg/kg	0.9	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	3750	ND	2.68	ND	ND	ND
<b>Conclusion</b>	-	-	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Note:

ND = Not detected  
 mg/kg = milligram(s) per kilogram  
 10 000 mg/kg = 1 %  
 Detection Limit ( mg/kg ) :  
 For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ; Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2  
 For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

“>” = Greater than  
 mg/kg = ppm = part(s) per million  
 % = percent

Conc. = Concentration  
 mcg/sq. m = microgram per square metre

Remark:



## TEST RESULT

### EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

**Test Method** : European Standard EN 71-3:2019+A1:2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Dry, brittle, powder-like or pliable toy material
	Type II	Liquid or sticky toy material
	Type III	Scraped-off toy material

Test Item(s)	Unit	Req.	Result				
			I014	I015	I016	I017	I018
Type	-	I	I	I	I	I	I
Parameter	-	-	-	-	-	-	-
Aluminium (Al)	mg/kg	2250	ND	ND	2.36	2.70	3.07
Antimony (Sb)	mg/kg	45	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	3.8	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	1500	ND	3.55	ND	15.06	2.0
Boron (B)	mg/kg	1200	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1.3	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	37.5	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.02	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	10.5	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	622.5	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	2.0	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	1200	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	7.5	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	75	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	37.5	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	4500	2.27	ND	3.75	2.0	2.76
Tin (Sn)	mg/kg	15000	ND	ND	ND	ND	ND
Organic tin	mg/kg	0.9	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	3750	ND	ND	ND	ND	ND
<b>Conclusion</b>	-	-	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Note:

ND = Not detected  
 mg/kg = milligram(s) per kilogram  
 10 000 mg/kg = 1 %  
 Detection Limit ( mg/kg ) :  
 For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ; Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2  
 For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

“>” = Greater than  
 mg/kg = ppm = part(s) per million  
 % = percent

Conc. = Concentration  
 mcg/sq. m = microgram per square metre

Remark:

## TEST RESULT

### EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

**Test Method** : European Standard EN 71-3:2019+A1:2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Dry, brittle, powder-like or pliable toy material
	Type II	Liquid or sticky toy material
	Type III	Scraped-off toy material

Test Item(s)	Unit	Req.	Result					
			I019	I020	I021	I022	I023	I024
<b>Type</b>	-	I	I	I	I	I	I	I
<b>Parameter</b>	-	-	-	-	-	-	-	-
Aluminium (Al)	mg/kg	2250	61.72	8.16	ND	4.71	4.41	ND
Antimony (Sb)	mg/kg	45	ND	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	3.8	ND	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	1500	ND	ND	ND	ND	ND	ND
Boron (B)	mg/kg	1200	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1.3	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	37.5	ND	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.02	ND	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	10.5	ND	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	622.5	ND	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	2.0	ND	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	1200	ND	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	7.5	ND	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	75	ND	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	37.5	ND	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	4500	2.67	2.03	ND	ND	3.25	ND
Tin (Sn)	mg/kg	15000	ND	ND	ND	ND	ND	ND
Organic tin	mg/kg	0.9	ND	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	3750	ND	ND	ND	ND	ND	ND
<b>Conclusion</b>	-	-	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Note:

ND = Not detected  
 mg/kg = milligram(s) per kilogram  
 10 000 mg/kg = 1 %  
 Detection Limit ( mg/kg ) :  
 For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ; Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2  
 For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

“>” = Greater than  
 mg/kg = ppm = part(s) per million  
 % = percent

Conc. = Concentration  
 mcg/sq. m = microgram per square metre

Remark:

## TEST RESULT

### EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

**Test Method** : European Standard EN 71-3:2019+A1:2021

<b>See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table</b>	<b>Type I</b>	<b>Dry, brittle, powder-like or pliable toy material</b>
	<b>Type II</b>	<b>Liquid or sticky toy material</b>
	<b>Type III</b>	<b>Scraped-off toy material</b>

	<b>Unit</b>	<b>Req.</b>	<b>Result</b>
<b>Test Item(s)</b>	-	-	<b>I012</b>
<b>Type</b>	-	<b>I</b>	<b>I</b>
<b>Parameter</b>	-	-	-
Aluminium (Al)	mg/kg	2250	ND
Antimony (Sb)	mg/kg	45	ND
Arsenic (As)	mg/kg	3.8	ND
Barium (Ba)	mg/kg	1500	ND
Boron (B)	mg/kg	1200	ND
Cadmium (Cd)	mg/kg	1.3	ND
Total Chromium	mg/kg	-	0.01
Chromium III (Cr III)	mg/kg	37.5	##
Chromium VI (Cr VI)	mg/kg	0.02	##
Cobalt (Co)	mg/kg	10.5	ND
Copper (Cu)	mg/kg	622.5	ND
Lead (Pb)	mg/kg	2.0	ND
Manganese (Mn)	mg/kg	1200	ND
Mercury (Hg)	mg/kg	7.5	ND
Nickel (Ni)	mg/kg	75	ND
Selenium (Se)	mg/kg	37.5	ND
Strontium (Sr)	mg/kg	4500	ND
Tin (Sn)	mg/kg	15000	ND
Organic tin	mg/kg	0.9	ND
Zinc (Zn)	mg/kg	3750	ND
<b>Conclusion</b>	-	-	<b>PASS</b>

## As total Chromium is less than 0.02 mg/kg Chromium (VI) confirmation has not been performed.

Note:

ND = Not detected

mg/kg = milligram(s) per kilogram

10 000 mg/kg = 1 %

Detection Limit ( mg/kg ) :

For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ;

Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2

For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

“>” = Greater than

mg/kg = ppm = part(s) per million

% = percent

Conc. = Concentration

mcg/sq. m = microgram per square metre

Remark:

## TEST RESULT

### EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

**Test Method** : European Standard EN 71-3:2019+A1:2021

<b>See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table</b>	<b>Type I</b>	<b>Dry, brittle, powder-like or pliable toy material</b>
	<b>Type II</b>	<b>Liquid or sticky toy material</b>
	<b>Type III</b>	<b>Scraped-off toy material</b>

Test Item(s)	Unit	Req.	Result	
			I005	I006
<b>Type</b>	-	I	I	I
<b>Parameter</b>	-	-	-	-
Aluminium (Al)	mg/kg	2250	4.67	4.39
Antimony (Sb)	mg/kg	45	ND	ND
Arsenic (As)	mg/kg	3.8	ND	ND
Barium (Ba)	mg/kg	1500	ND	ND
Boron (B)	mg/kg	1200	ND	ND
Cadmium (Cd)	mg/kg	1.3	ND	ND
Chromium III (Cr III)	mg/kg	37.5	0.06	0.08
Chromium VI (Cr VI)	mg/kg	0.02	ND	ND
Cobalt (Co)	mg/kg	10.5	ND	ND
Copper (Cu)	mg/kg	622.5	ND	ND
Lead (Pb)	mg/kg	2.0	ND	ND
Manganese (Mn)	mg/kg	1200	ND	ND
Mercury (Hg)	mg/kg	7.5	ND	ND
Nickel (Ni)	mg/kg	75	ND	ND
Selenium (Se)	mg/kg	37.5	ND	ND
Strontium (Sr)	mg/kg	4500	4.69	3.08
Tin (Sn)	mg/kg	15000	ND	ND
Organic tin	mg/kg	0.9	ND	ND
Zinc (Zn)	mg/kg	3750	ND	ND
<b>Conclusion</b>	-	-	<b>PASS</b>	<b>PASS</b>

Note:

ND = Not detected

">" = Greater than

Conc. = Concentration

mg/kg = milligram(s) per kilogram

mg/kg = ppm = part(s) per million

10 000 mg/kg = 1 %

% = percent

mcg/sq. m = microgram per square metre

Detection Limit ( mg/kg ) :

For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ;

Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2

For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

Remark:

## TEST RESULT

### EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

**Test Method** : European Standard EN 71-3:2019+A1:2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Dry, brittle, powder-like or pliable toy material
	Type II	Liquid or sticky toy material
	Type III	Scraped-off toy material

Test Item(s)	Unit	Req.	Result				
			I027	I028	I029	I030	I031
<b>Type</b>	-	III	III	III	III	III	III
<b>Parameter</b>	-	-	-	-	-	-	-
Aluminium (Al)	mg/kg	28130	4.84	7.48	ND	ND	71.89
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	23	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	2.43	3.63	ND	ND	2.92
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND	ND	ND	ND
<b>Conclusion</b>	-	-	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Note:

ND = Not detected

mg/kg = milligram(s) per kilogram

10 000 mg/kg = 1 %

Detection Limit ( mg/kg ) :

For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ;

Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2

For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

">" = Greater than

mg/kg = ppm = part(s) per million

% = percent

Conc. = Concentration

mcg/sq. m = microgram per square metre

Remark:

## TEST RESULT

### EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

**Test Method** : European Standard EN 71-3:2019+A1:2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Dry, brittle, powder-like or pliable toy material
	Type II	Liquid or sticky toy material
	Type III	Scraped-off toy material

Test Item(s)	Unit	Req.	Result				
			I033	I034	I035	I037	I038
<b>Type</b>	-	III	III	III	III	III	III
<b>Parameter</b>	-	-	-	-	-	-	-
Aluminium (Al)	mg/kg	28130	ND	62.86	63.04	40.98	54.81
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	23	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND	2.02	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND	ND	3.73	ND
<b>Conclusion</b>	-	-	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Note:

ND = Not detected

mg/kg = milligram(s) per kilogram

10 000 mg/kg = 1 %

Detection Limit ( mg/kg ) :

For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ;

Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2

For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

">" = Greater than

mg/kg = ppm = part(s) per million

% = percent

Conc. = Concentration

mcg/sq. m = microgram per square metre

Remark:

## TEST RESULT

### EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

**Test Method** : European Standard EN 71-3:2019+A1:2021

<b>See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table</b>	<b>Type I</b>	<b>Dry, brittle, powder-like or pliable toy material</b>
	<b>Type II</b>	<b>Liquid or sticky toy material</b>
	<b>Type III</b>	<b>Scraped-off toy material</b>

	<b>Unit</b>	<b>Req.</b>	<b>Result</b>	
<b>Test Item(s)</b>	-	-	<b>I039</b>	<b>I040</b>
<b>Type</b>	-	III	III	III
<b>Parameter</b>	-	-	-	-
Aluminium (Al)	mg/kg	28130	60.18	50.16
Antimony (Sb)	mg/kg	560	ND	ND
Arsenic (As)	mg/kg	47	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND
Boron (B)	mg/kg	15000	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND
Chromium III (Cr III)	mg/kg	460	ND	ND
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND
Lead (Pb)	mg/kg	23	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND
Selenium (Se)	mg/kg	460	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND
Organic tin	mg/kg	12	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND
<b>Conclusion</b>	-	-	<b>PASS</b>	<b>PASS</b>

Note:

ND = Not detected

">" = Greater than

Conc. = Concentration

mg/kg = milligram(s) per kilogram

mg/kg = ppm = part(s) per million

10 000 mg/kg = 1 %

% = percent

mcg/sq. m = microgram per square metre

Detection Limit ( mg/kg ) :

For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ;

Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2

For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

Remark:

## TEST RESULT

### EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

**Test Method** : European Standard EN 71-3:2019+A1:2021

<b>See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table</b>	<b>Type I</b>	<b>Dry, brittle, powder-like or pliable toy material</b>
	<b>Type II</b>	<b>Liquid or sticky toy material</b>
	<b>Type III</b>	<b>Scraped-off toy material</b>

Test Item(s)	Unit	Req.	Result			
			I025	I026	I031	I036
<b>6Type</b>	-	III	III	III	III	III
<b>Parameter</b>	-	-	-	-	-	-
Aluminium (Al)	mg/kg	28130	13.76	21.77	94.43	97.89
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	0.09	0.10	0.06	0.06
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND
Lead (Pb)	mg/kg	23	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	5.35	5.65	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	26.78	30.36	2.08	2.07
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	2.06	ND	2.36
<b>Conclusion</b>	-	-	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Note:

ND = Not detected

">" = Greater than

Conc. = Concentration

mg/kg = milligram(s) per kilogram

mg/kg = ppm = part(s) per million

10 000 mg/kg = 1 %

% = percent

mcg/sq. m = microgram per square metre

Detection Limit ( mg/kg ) :

For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ;

Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2

For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

Remark:



## TEST RESULT

### EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS CHROMIUM III AND CHROMIUM VI CONFIRMATION

**Test Method** : European Standard EN 71-3:2019+A1:2021

<b>Se Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table</b>	<b>Type I</b>	<b>Dry, brittle, powder-like or pliable toy material</b>
	<b>Type II</b>	<b>Liquid or sticky toy material</b>
	<b>Type III</b>	<b>Scraped-off toy material</b>

	<b>Unit</b>	<b>Req.</b>	<b>Result</b>	
<b>Test Item(s)</b>	-	-	<b>I005</b>	<b>I006</b>
<b>Type</b>	-	I	I	I
<b>Parameter</b>	-	-	-	-
Chromium VI (Cr VI)	mg/kg	0.02	ND	ND
<b>Conclusion</b>	-	-	<b>PASS</b>	<b>PASS</b>

	<b>Unit</b>	<b>Req.</b>	<b>Result</b>		
<b>Test Item(s)</b>	-	-	<b>I025</b>	<b>I026</b>	<b>I031</b>
<b>Type</b>	-	III	III	III	III
<b>Parameter</b>	-	-	-	-	-
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND
<b>Conclusion</b>	-	-	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

	<b>Unit</b>	<b>Req.</b>	<b>Result</b>
<b>Test Item(s)</b>	-	-	<b>I036</b>
<b>Type</b>	-	III	III
<b>Parameter</b>	-	-	-
Chromium VI (Cr VI)	mg/kg	0.053	ND
<b>Conclusion</b>	-	-	<b>PASS</b>

Note:

ND = Not detected

mg/kg = milligram(s) per kilogram

10 000 mg/kg = 1 %

Detection Limit ( mg/kg ) :

For Type I and Type II - Cr VI : 0.005 [0.002]

For Type III - Cr VI : 0.05 [0.002]

“>” = Greater than

mg/kg = ppm = part(s) per million

% = percent

Conc. = Concentration

mcg/sq. m = microgram per square metre

Remark:

## TEST RESULT

### POLYCYCLIC AROMATIC HYDROCARBONS (PAHS)

**Test Method** : All materials: AFPS GS 2019  
Quantification analysis by GC-MS

<b>Maximum Limit:</b>	<b>Each of 8 PAHs &lt; 0.5 mg/kg</b>
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Tested Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
<b>I001+I002+I003</b>	/	ND	mg/kg	PASS
<b>I004+I005+I006</b>	/	ND	mg/kg	PASS
<b>I007+I008+I009</b>	/	ND	mg/kg	PASS
<b>I010+I011</b>	/	ND	mg/kg	PASS
<b>I012+I013+I014</b>	/	ND	mg/kg	PASS
<b>I015+I016+I017</b>	/	ND	mg/kg	PASS
<b>I018+I019+I020</b>	/	ND	mg/kg	PASS
<b>I021+I022+I023</b>	/	ND	mg/kg	PASS
<b>I024+ I041+ I042</b>	/	ND	mg/kg	PASS

ND = Not detected  
mg/kg = milligram(s) per kilogram  
10 000 mg/kg = 1 %  
Detection Limit ( mg/kg ) - 0.1 each

“>” = Greater than  
mg/kg = ppm = part(s) per million  
% = percent

Conc. = Concentration

Remark:

- The list of Polycyclic Aromatic Hydrocarbons (PAHs) is summarized in table of Appendix.

## TEST RESULT

### PHTHALATES

**Test Method** : CPSC-CH-C1001-09.3  
Quantification analysis by GC-MS or LC-DAD-MS

<b>Maximum Limit:</b>	<b>Sum of (DBP, BBP, DEHP): Less than 1000 mg/kg</b> <b>Sum of (DNOP, DIDP, DINP): Less than 1000 mg/kg</b>			
Tested Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
<b>I001+I002+I003</b>	/	ND	mg/kg	PASS
<b>I004+I005+I006</b>	/	ND	mg/kg	PASS
<b>I007+I008+I009</b>	/	ND	mg/kg	PASS
<b>I010+I011</b>	/	ND	mg/kg	PASS
<b>I012+I013+I014</b>	/	ND	mg/kg	PASS
<b>I015+I016+I017</b>	/	ND	mg/kg	PASS
<b>I018+I019+I020</b>	/	ND	mg/kg	PASS
<b>I021+I022+I023</b>	/	ND	mg/kg	PASS
<b>I024+ I041+ I042</b>	/	ND	mg/kg	PASS

Note:

ND = Not detected  
mg/kg = milligram(s) per kilogram  
10 000 mg/kg = 1 %  
Detection Limit ( mg/kg ) - 50 each

“>” = Greater than  
mg/kg = ppm = part(s) per million  
% = percent

Conc. = Concentration

Remark:

- The list of Phthalates is summarized in table of Appendix.

APPENDIX A –LIST OF MEASUREMENT UNCERTAINTIES		
TEST NAME	STANDARD NAME	MEASUREMENT UNCERTAINTY
Migration Of Certain Elements	European Standard EN 71 Part 3: 2019, Section 8.	± % 26,78
Phthalates	CPSC-CH-C1001-09.03	± %16,53
Polycyclic Aromatic Hydrocarbons (PAHs)	AFPS GS 2019	± % 19.44

**APPENDIX**

<b>List of Phthalates:</b>					
<b>No.</b>	<b>Name of Analytes</b>	<b>CAS-No.</b>	<b>No.</b>	<b>Name of Analytes</b>	<b>CAS-No.</b>
1	Butylbenzylphthalate (BBP)	85-68-7	4	Di-n-octylphthalate (DNOP)	117-84-0
2	Dibutylphthalate (DBP)	84-74-2	5	Di-iso-nonylphthalate (DINP)	28553-12-0
3	Di(2-ethylhexyl)-phthalate (DEHP)	117-81-7	6	Diisodecylphthalate (DIDP)	26761-40-0

<b>List of Polycyclic Aromatic Hydrocarbons (PAHs):</b>					
<b>No.</b>	<b>Name of Analytes</b>	<b>CAS-No.</b>	<b>No.</b>	<b>Name of Analytes</b>	<b>CAS-No.</b>
1	Benzo (a) anthracene	56-55-3	5	Dibenzo (a,h) anthracene	53-70-3
2	Chrysene	218-01-9	6	Benzo (b) fluoranthene	205-99-2
3	Benzo (a) pyrene	50-32-8	7	Benzo (k) fluoranthene	207-08-9
4	Benzo (e) pyrene	192-97-2	8	Benzo (j) fluoranthene	205-82-3

**-END OF REPORT-**