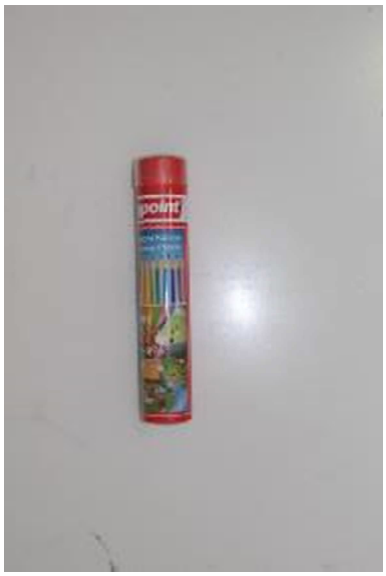
TEST RAPORU

REPORT NUMBER :	**TURT190127453**
APPLICANT NAME	**Bilgi Dağ. Kitap Kırt. ve Büro Malz. Tic. Ltd. Şti.**
ADDRESS	Merkez Mah. 29 Ekim Cad.No:53 Bahçelievler/İstanbul Tel: 0212 551 00 92 Fax:0212 551 09 57 **Attention: Efe Yüksel (efe@bilgi-dagitim.com)**
SAMPLE DESCRIPTION :	One sample of Blue/Red/Black color pencils
BUYER :	**METRO BTS**
DATE IN :	**12 July, 2019 (10:04)**
DATE OUT :	**24 July, 2019**
MANUFACTURER :	BİLGİ DAĞ KİTAP KIRT. VE BÜRO MALZ. TİC. LTD ŞTİ.
ITEM CODE :	BP941-12
COUNTRY OF ORIGIN :	INDONESIA
PHOTO OF PRODUCT TESTED SAMPLE :	
RESULTS :	See Attachment
NOTE:	Only blue,red and black color pencils were tested by the request of the applicant.

Begüm Nazlı Traş Customer Care Executive	Zeynep Akın Chemical Laboratory Manager	Nida Arslanbay Textile Laboratory Manager	Recep Yarlığan Toys&Hardline/Footwear Laboratory Manager

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RESULTS :

Analysis Parameter	Reference Analysis Method	PASS	FAIL	Norm Limit	Standard for Norm Limit	Tested Part
Mechanical and Physical Properties Part 1	BS EN 71 – 1 : 2014	P	-	EN 71-1	EN 71-1	Sample
Flammability - Safety of Toys Part 2	BS EN 71-2:2011+A1:2014	P	-	EN 71-2	EN 71-2	Sample
Migration Of Certain Elements	EN 71-3:2013+A3:2018	P	-	See Toxic Element Analysis	Toys Safety Directive	Part 1-5
Total Phthalate Content	INTERTEK IHTM AL.2.026 based on EN 14372 : 2004 according to REACH Regulation	P	-	DBP/DEHP/BBP : 1000 ppm DINP/DNOP/ DIDP :1000 ppm	KKDIK	Part 2-7
Polycyclic Aromatic Hydrocarbons (PAHs) Analysis	INTERTEK IHTM AL.2.032 based on AfPS GS 2014:01	P	-	See PAH Test	2005/69/EC	Part 2-6,7

P = MEETS BUYER' S REQUIREMENT / F = DOES NOT MEET BUYER' S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED

Part No	Tested Part
1	Multicolor books coating
2	Red coating
3	Black coating
4	Red dye
5	Black dye
6	Blue coating
7	Blue dye

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

The item was labelled: “Small parts might be swallowed. Not suitable for children under 3 years.”
The item was tested for children aged over 10 months.
The item was packaging in cylindrical shaped metallic box which was considered to be for retention.

SECTION	*TEST*	*RESULTS*
4	**General Requirements**	
4.1	**Material**	Pass
4.7	**Edges**	Pass
4.8	**Point & Metallic Wires**	Pass
5	**Toys Intented 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**	##

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.

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 : 2011+ A1:2014

SECTION	*TEST*	*RESULTS*
4.1	**General**	
	Celluloid (cellulose nitrate) and materials with a 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.

MIGRATION OF CERTAIN ELEMENTS

EN 71-3:2013+A3:2018

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			
Antimony (Sb)	ND	ND	ND		0,125	560
Arsenic (As)	ND	ND	ND		0,125	47
Barium (Ba)	78	3.4	3.2		0,125	18750
Cadmium (Cd)	ND	ND	ND		0,125	17
Chromium (III) ++	ND	ND	ND		0,125	460
Chromium (VI) ++	ND	ND	ND		0,125	0,2
Lead (Pb)	1.6	ND	ND		0,125	23
Mercury (Hg)	ND	ND	ND		0,0125	94
Selenium (Se)	ND	ND	ND		0,125	460
Aluminium (Al)	323	101	190		0,125	70000
Boron (B)	2	3.3	5.4		0,125	15000
Cobalt (Co)	ND	ND	ND		0,125	130
Copper (Cu)	ND	ND	ND		0,125	7700
Manganese (Mn)	ND	51.2	2.7		0,125	15000
Nickel (Ni)	ND	ND	ND		0,125	930
Strontium (Sr)	1.1	2.5	ND		0,125	56000
Tin (Sn)	ND	ND	ND		1,25	180000
Organic tin ++	ND	ND	ND		0,125	12
Zinc (Zn)	1.7	1.4	1.5		0,125	46000

++= Unless the test results were marked with "#" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.
= Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium - migration value of Chromium(VI).
Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Organotins which are specified Table 3 and Annex J -Table J.1 after converted to Tributyl tin by calculation.

ppm (Part per million) =mg / kg
< =Less Than
ND =Not Detected

MIGRATION OF CERTAIN ELEMENTS

EN 71-3:2013+A3:2018

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 4	Part 5				
Antimony (Sb)	ND	ND			0,125	45
Arsenic (As)	0.2	0.3			0,125	3,8
Barium (Ba)	6	6.3			0,125	1500
Cadmium (Cd)	ND	ND			0,125	1,3
Chromium (III) ++	ND	ND			0,125	37,5
Chromium (VI) ++	ND	ND			0,02	0,02
Lead (Pb)	1.4	1			0,125	2.0
Mercury (Hg)	ND	ND			0,0125	7,5
Selenium (Se)	ND	ND			0,125	37,5
Aluminium (Al)	63	86			0,125	5625
Boron (B)	2.8	2.6			0,125	1200
Cobalt (Co)	0.4	0.3			0,125	10,5
Copper (Cu)	1.1	0.9			0,125	622,5
Manganese (Mn)	1.8	1.4			0,125	1200
Nickel (Ni)	ND	ND			0,125	75
Strontium (Sr)	2.8	2.2			0,125	4720
Tin (Sn)	ND	ND			1,25	15000
Organic tin ++	ND	ND			0,125	0,9
Zinc (Zn)	1.6	1.8			0,125	3750

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Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Organotins which are specified Table 3 and Annex J -Table J.1 after converted to Tributyl tin by calculation.

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ND =Not Detected

TOTAL PHTHALATE CONTENT

INTERTEK IHTM AL.2.026 based on EN 14372 : 2004 according to REACH Regulation

	Part 2&3&6	Part 4&5&7
DIBUTYL PHTHALATE (DBP)	ND	ND
DIETHYL HEXYL PHTHALATE (DEHP)	ND	ND
BENZYL BUTYL PHTHALATE (BBP)	ND	ND
SUM OF THREE PHTHALATES	ND	ND
DI-ISO-NONYL PHTHALATE (DINP)	ND	ND
DI-N-OCTYL PHTHALATE (DNOP)	ND	ND
DI-ISO-DECYL PHTHALATE (DIDP)	ND	ND
SUM OF THREE PHTHALATES	ND	ND

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

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ANALYSIS

INTERTEK IHTM AL.2.032 based on AfPS GS 2014:01

	Part 2&3&6		
		RESULT (mg/kg)	**REQUIREMENT**
1	Benzo (a) pyrene	**0.2 ppm**	< 0.5 ppm
2	Benzo (e) pyrene	**0.1 ppm**	< 0.5 ppm
3	Benzo (a) anthracene	**Not Detected**	< 0.5 ppm
4	Benzo (b) fluoranthene	**0.3 ppm**	< 0.5 ppm
5	Benzo (j) fluoranthene	**0.1 ppm**	< 0.5 ppm
6	Benzo (k) fluoranthene	**0.2 ppm**	< 0.5 ppm
7	Chrysene	**Not Detected**	< 0.5 ppm
8	Dibenzo (a,h) anthracene	**Not Detected**	< 0.5 ppm

	Part 4		
		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
< = less then

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POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ANALYSIS

INTERTEK IHTM AL.2.032 based on AfPS GS 2014:01

	Part 7		
		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
< = less then

END OF TEST REPORT

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