TEST REPORT

REPORT NUMBER : **TURA140130131**

APPLICANT NAME **Bilgi Dağıtım Kitap Kırt. Ve Büro Malz. Tic. Ltd.Şti.**

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Attention : Turan Bey (turan@bilgi-dagitim.com)

SAMPLE DESCRIPTION : Washable Finger paints

BUYER : TÜKID

DATE IN : **26 August, 2014 (10:11)**

DATE OUT : **01 September, 2014**

ARTICLE NO : BP749-50-51-52-53-54-55-56-57-58-59-06-04

PHOTO OF PRODUCT TESTED :

Merve Şahin
Coordinator

Neslihan Sözer
Chemical Laboratory Manager

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140130131

dogan.kilinc

Code	Test Method	Result	Requirements

Sample No	Tested Sample
1	RED PAINT
2	BROWN PAINT
3	NAVY PAINT
4	BEIGE PAINT
5	ORANGE PAINT
6	GREEN PAINT
7	WHITE PAINT
8	PINK PAINT
9	YELLOW PAINT
10	BLACK PAINT
11	MULTICOLOR STICKER
12	MULTICOLOR BOX
13	RED COVER
14	NAVY COVER
15	GREEN COVER
16	YELLOW COVER
17	TRANSPARENT SMALL TUBE
18	TRANSPARENT BIG TUBE
19	TRANSPARENT COVER
20	WHITE COVER

Code	Test Method	Result	Requirements

RESULTS :

Analysis Parameter	Reference Analysis Method	PASS	FAIL	Norm Limit	Standard for Norm Limit	Tested Sample
Azo Dyes	EN 14362-1 : 2012 for Textile Material	P	-	30 ppm	1907-2006-EC	Part 1-16
Toxic Element Analysis	BS EN 71-3:1995	P	-	Sb: 60 ppm As: 25 ppm Ba: 1000 ppm Cd: 75 ppm Cr: 60 ppm Pb: 90 ppm Hg: 60 ppm Se: 500 ppm	EN 71-3	Part 1-20
Phthalate	EN 14372 by GC MS	P	-	DBP/DEHP/BBP : 1000 ppm DINP/DNOP/ DIDP :1000 ppm	EEC Directive 2005/84/EC on 14 December 2005	Part 1-20
PAH	ZEK 01-08 Method	P	-	Total PAH <10 ppm BaP <1 ppm	2005/69/EC	Part 1-20

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

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Code	Test Method	Result	Requirements

Detection Of Amines Derived From Azocolourants and Azodyes

By Gas Chromatographic – Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis
Test Method : EN 14362-1 : 2012 for Textile Material

Part 1&2&3&4&5&6&7&8&9&10&11&12&13&14&15&16

1)Multicolor sticker (without extraction)	<30 ppm
2)Multicolor box (without extraction)	<30 ppm
3)Composite sample of Green,yellow,red cover plastic (with extraction)	<30 ppm
4)Navy cover plastic (with extraction)	<30 ppm
5)Composite sample of Yellow,pink,white dye (without extraction)	<30 ppm
6)Composite sample of Green,blue,black dye (without extraction)	<30 ppm
7) Composite sample of Brown,orange,beige dye (without extraction)	<30 ppm
8)Red dye (without extarction)	<30 ppm

INTERPRETATION OF AZO-DYES TEST RESULTS:

FORBIDDEN AMINE	CAS NO	1	2	3	4	5	6	7	8
4-AMINOBIPHENYL	92-67-1	N	N	N	N	N	N	N	N
BENZIDINE	92-87-5	N	N	N	N	N	N	N	N
CHLORO-O-4-CHLOR-O-TOLUIDINE	95-69-2	N	N	N	N	N	N	N	N
2-NAPHTHYLAMINE	91-59-8	N	N	N	N	N	N	N	N
*O-AMINOAZOTOLUENE	97-56-3	N	N	N	N	N	N	N	N
*2-AMINO-4-NITROTOLUENE	99-55-8	N	N	N	N	N	N	N	N
P-CHLOROANILINE	106-47-8	N	N	N	N	N	N	N	N
2,4-DIAMINOANISOLE	615-05-4	N	N	N	N	N	N	N	N
4,4'-DIAMINOBIPHENYLMETHANE	101-77-9	N	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	91-94-1	N	N	N	N	N	N	N	N
3,3'-DIMETHOXYBENZIDINE	119-90-4	N	N	N	N	N	N	N	N
3,3'-DIMETHYLBENZIDINE	119-93-7	N	N	N	N	N	N	N	N
3,3'-DİMETHYL-4,4' DIAMINOBIPHENYLMETHANE	838-88-0	N	N	N	N	N	N	N	N
P-CRESIDINE	120-71-8	N	N	N	N	N	N	N	N
4,4'-METHYLENE-BIS-(2 CHLOROANILINE)	101-14-4	N	N	N	N	N	N	N	N
4,4'-OXYDIANILINE	101-80-4	N	N	N	N	N	N	N	N
4,4'-THIODIANILINE	139-65-1	N	N	N	N	N	N	N	N
O-TOLUIDINE	95-53-4	N	N	N	N	N	N	N	N
2,4-TOLUYLENDIAMINE	95-80-7	N	N	N	N	N	N	N	N
2,4,5-TRIMETHYLANILINE	137-17-7	N	N	N	N	N	N	N	N
O-ANISIDINE	90-04-0	N	N	N	N	N	N	N	N
**P-AMİNOAZOBENZENE	60-09-3	N	N	N	N	N	N	N	N
2,4 XYLIDINE	95-68-1	N	N	N	N	N	N	N	N
2,6 XYLIDINE	87-62-7	N	N	N	N	N	N	N	N

Note:

1)The amines o-amino-azotoluene and 2-amino-4-nitrotoluene are detected by its splitted product o-toluidine and 2,4- toluylenediamine.
2)Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4- phenylendiamine . The presence of these colorants can not be reliably ascertained without additional information, e.g. chemical structure of the colorant used.
3)According to EN 14362-1:2012, separate test is suggested to ascertain the compliance for result of mixed test in the range between 5 ppm and 30 ppm.
4)Azocolourants Content Requirement In Annex XVII Item 43 Of The REACH Regulation (EC) NO. 1907/2006 & Amendment No. 552/2009 and 126/2013 (Formerly Known As Directive 2002/61/EC

ppm : part per million (mg/kg)
Detection Limit: 5 ppm
< = Less Than
Total Uncertainty = ± 9%
N:Not detected

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Code	Test Method	Result	Requirements

Toxic Elements Analysis

BS EN 71-3:1995
Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma-ICP_OES.

		Part 1	Part 2	Part 3	Part 4	Part 5	Part 6	Part 7
Antimony	(Sb)	ND	ND	ND	ND	ND	ND	ND
Arsenic	(As)	ND	ND	ND	ND	ND	ND	ND
Barium	(Ba)	ND	ND	ND	ND	ND	ND	ND
Cadmium	(Cd)	ND	ND	ND	ND	ND	ND	ND
Chromium	(Cr)	ND	ND	ND	ND	ND	ND	ND
Lead	(Pb)	ND	ND	ND	ND	ND	ND	ND
Mercury	(Hg)	ND	ND	ND	ND	ND	ND	ND
Selenium	(Se)	ND	ND	ND	ND	ND	ND	ND

		Part 8	Part 9	Part 10	Part 11	Part 12	Part 13	Part 14
Antimony	(Sb)	ND	ND	ND	ND	ND	ND	ND
Arsenic	(As)	ND	ND	ND	ND	ND	ND	ND
Barium	(Ba)	ND	ND	ND	ND	ND	ND	ND
Cadmium	(Cd)	ND	ND	ND	ND	ND	ND	ND
Chromium	(Cr)	ND	ND	ND	ND	ND	ND	ND
Lead	(Pb)	ND	ND	ND	ND	ND	ND	ND
Mercury	(Hg)	ND	ND	ND	ND	ND	ND	ND
Selenium	(Se)	ND	ND	ND	ND	ND	ND	ND

		Detection Limit	Requirement (ppm)
Antimony	(Sb)	**<2 ppm**	<60
Arsenic	(As)	**<2 ppm**	<25
Barium	(Ba)	**<2 ppm**	<1000
Cadmium	(Cd)	**<2 ppm**	<75
Chromium	(Cr)	**<5 ppm**	<60
Lead	(Pb)	**<5 ppm**	<90
Mercury	(Hg)	**<2 ppm**	<60
Selenium	(Se)	**<2 ppm**	<500

(Total uncertainty=Results quoted have been corrected for uncertainty)
ppm (Part per million) =mg / kg
< =Less Than
ND =Not Detected

Code	Test Method	Result	Requirements

Toxic Elements Analysis

BS EN 71-3:1995
Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma-ICP_OES.

		Part 15	Part 16	Part 17	Part 18	Part 19	Part 20
Antimony	(Sb)	ND	ND	ND	ND	ND	ND
Arsenic	(As)	ND	ND	ND	ND	ND	ND
Barium	(Ba)	ND	ND	ND	ND	ND	ND
Cadmium	(Cd)	ND	ND	ND	ND	ND	ND
Chromium	(Cr)	ND	ND	ND	ND	ND	ND
Lead	(Pb)	ND	ND	ND	ND	ND	ND
Mercury	(Hg)	ND	ND	ND	ND	ND	ND
Selenium	(Se)	ND	ND	ND	ND	ND	ND

		Detection Limit	Requirement (ppm)
Antimony	(Sb)	**<2 ppm**	<60
Arsenic	(As)	**<2 ppm**	<25
Barium	(Ba)	**<2 ppm**	<1000
Cadmium	(Cd)	**<2 ppm**	<75
Chromium	(Cr)	**<5 ppm**	<60
Lead	(Pb)	**<5 ppm**	<90
Mercury	(Hg)	**<2 ppm**	<60
Selenium	(Se)	**<2 ppm**	<500

(Total uncertainty=Results quoted have been corrected for uncertainty)

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

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Code	Test Method	Result	Requirements

TOTAL PHTHALATE CONTENT

EN 14372 : 2004 Method By Gas Chromotographic-Mass Spectrometric (GC-MS) Analysis :

	Part 1	Part 2	Part 3	Part 4	Part 5	Part 6	Part 7
DIBUTYL PHTHALATE (DBP)	ND	ND	ND	ND	ND	ND	ND
DIETHYL HEXYL PHTHALATE (DEHP)	ND	ND	ND	ND	ND	ND	ND
BENZYL BUTYL PHTHALATE (BBP)	ND	ND	ND	ND	ND	ND	ND
SUM OF THREE PHTHALATES	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND
DI-ISO-NONYL PHTHALATE (DINP)	ND	ND	ND	ND	ND	ND	ND
DI-N-OCTYL PHTHALATE (DNOP)	ND	ND	ND	ND	ND	ND	ND
DI-ISO-DECYL PHTHALATE (DIDP)	ND	ND	ND	ND	ND	ND	ND
SUM OF THREE PHTHALATES	ND	ND	ND	ND	ND	ND	ND

	Part 8	Part 9	Part 10	Part 11	Part 12	Part 13
DIBUTYL PHTHALATE (DBP)	ND	ND	ND	ND	ND	ND
DIETHYL HEXYL PHTHALATE (DEHP)	ND	ND	ND	ND	ND	ND
BENZYL BUTYL PHTHALATE (BBP)	ND	ND	ND	ND	ND	ND
SUM OF THREE PHTHALATES	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND
DI-ISO-NONYL PHTHALATE (DINP)	ND	ND	ND	ND	ND	ND
DI-N-OCTYL PHTHALATE (DNOP)	ND	ND	ND	ND	ND	ND
DI-ISO-DECYL PHTHALATE (DIDP)	ND	ND	ND	ND	ND	ND
SUM OF THREE PHTHALATES	ND	ND	ND	ND	ND	ND

REMARK =The Above Limit Was Quoted According To The EEC Directive 2005/84/EC On 14 December 2005.
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

(Total Uncertainty=±5 %)

Code	Test Method	Result	Requirements

TOTAL PHTHALATE CONTENT

EN 14372 : 2004 Method By Gas Chromotographic-Mass Spectrometric (GC-MS) Analysis :

	Part 14	Part 15	Part 16	Part 17	Part 18	Part 19	Part 20
DIBUTYL PHTHALATE (DBP)	ND	ND	ND	ND	ND	ND	ND
DIETHYL HEXYL PHTHALATE (DEHP)	ND	ND	ND	ND	ND	ND	ND
BENZYL BUTYL PHTHALATE (BBP)	ND	ND	ND	ND	ND	ND	ND
SUM OF THREE PHTHALATES	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND
DI-ISO-NONYL PHTHALATE (DINP)	ND	ND	ND	ND	ND	ND	ND
DI-N-OCTYL PHTHALATE (DNOP)	ND	ND	ND	ND	ND	ND	ND
DI-ISO-DECYL PHTHALATE (DIDP)	ND	ND	ND	ND	ND	ND	ND
SUM OF THREE PHTHALATES	ND	ND	ND	ND	ND	ND	ND

REMARK =The Above Limit Was Quoted According To The EEC Directive 2005/84/EC On 14 December 2005.
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

(Total Uncertainty=±5 %)

Code	Test Method	Result	Requirements

Polycyclic Aromatic Hydrocarbons (PAHs) Analysis

INTERTEK IHTM AL.2.032 : 2012 based on ZEK 01-04-08

Harmonisierte Methode zur Bestimmung von polycyclischen aromatischen Kohlenwasserstoffen (PAK) in Kunststoffproben ZEK 01-08 AS SOLVENT EXTRACTION AND FOLLOWED BY GAS CHROMATOGRAPHY MASS SPECTROMETRIC (GC/MS) ANALYSIS

	Part 1	Part 2	Part 3	Part 4	Part 5	Part 6	Part 7	Part 8
NAPHTHALENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
ACENAPHTHYLENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
ACENAPHTHEN	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
FLUORENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
PHENANTHRENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
ANTHRACENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
FLUORANTHENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
PYRENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
BENZO (a) ANTHRACENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
CHRYSENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
BENZO (b) FLUORANTHENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
BENZO (k) FLUORANTHENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
BENZO (a) PYRENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
INDENO (1,2,3-cd) PYRENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
DIBENZO (a,h) ANTHRACENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
BENZO (ghi) PERYLENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
BENZO(i)FLUORANTHENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
BENZO(e)PYRENE	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**

SUM (18 PAH):	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
ppm (part per million) =mg / kg	Requirement : Category 2 Total 18 PAH : 10 mg/kg Benzo(a)pyrene : 1 mg/kg							
Detection Limit = 0.2 ppm								
ND = Not Detected								

Estimated Total Uncertainty= ±3%

Code	Test Method	Result	Requirements

Polycyclic Aromatic Hydrocarbons (PAHs) Analysis

INTERTEK IHTM AL.2.032 : 2012 based on ZEK 01-04-08

Harmonisierte Methode zur Bestimmung von polycyclischen aromatischen Kohlenwasserstoffen (PAK) in Kunststoffproben ZEK 01-08 AS SOLVENT EXTRACTION AND FOLLOWED BY GAS CHROMATOGRAPHY MASS SPECTROMETRIC (GC/MS) ANALYSIS

	Part 9	Part 10	Part 11	Part 12	Part 13	Part 14	Part 15	Part 16
NAPHTHALENE	ND	ND	ND	ND	ND	ND	ND	ND
ACENAPHTHYLENE	ND	ND	ND	ND	ND	ND	ND	ND
ACENAPHTHEN	ND	ND	ND	ND	ND	ND	ND	ND
FLUORENE	ND	ND	ND	ND	ND	ND	ND	ND
PHENANTHRENE	ND	ND	ND	ND	ND	ND	ND	ND
ANTHRACENE	ND	ND	ND	ND	ND	ND	ND	ND
FLUORANTHENE	ND	ND	ND	ND	ND	ND	ND	ND
PYRENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (a) ANTHRACENE	ND	ND	ND	ND	ND	ND	ND	ND
CHRYSENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (b) FLUORANTHENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (k) FLUORANTHENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (a) PYRENE	ND	ND	ND	ND	ND	ND	ND	ND
INDENO (1,2,3-cd) PYRENE	ND	ND	ND	ND	ND	ND	ND	ND
DIBENZO (a,h) ANTHRACENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (ghi) PERYLENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO(i)FLUORANTHENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO(e)PYRENE	ND	ND	ND	ND	ND	ND	ND	ND

SUM (18 PAH):	ND	ND	ND	ND	ND	ND	ND	ND
ppm (part per million) =mg / kg	Requirement : Category 2 Total 18 PAH : 10 mg/kg Benzo(a)pyrene : 1 mg/kg							
Detection Limit = 0.2 ppm								
ND = Not Detected								

Estimated Total Uncertainty= ±3%

Code	Test Method	Result	Requirements

Polycyclic Aromatic Hydrocarbons (PAHs) Analysis

INTERTEK IHTM AL.2.032 : 2012 based on ZEK 01-04-08

Harmonisierte Methode zur Bestimmung von polycyclischen aromatischen Kohlenwasserstoffen (PAK) in Kunststoffproben ZEK 01-08 AS SOLVENT EXTRACTION AND FOLLOWED BY GAS CHROMATOGRAPHY MASS SPECTROMETRIC (GC/MS) ANALYSIS

	Part 17	Part 18	Part 19	Part 20
NAPHTHALENE	**ND**	**ND**	**ND**	**ND**
ACENAPHTHYLENE	**ND**	**ND**	**ND**	**ND**
ACENAPHTHEN	**ND**	**ND**	**ND**	**ND**
FLUORENE	**ND**	**ND**	**ND**	**ND**
PHENANTHRENE	**ND**	**ND**	**ND**	**ND**
ANTHRACENE	**ND**	**ND**	**ND**	**ND**
FLUORANTHENE	**ND**	**ND**	**ND**	**ND**
PYRENE	**ND**	**ND**	**ND**	**ND**
BENZO (a) ANTHRACENE	**ND**	**ND**	**ND**	**ND**
CHRYSENE	**ND**	**ND**	**ND**	**ND**
BENZO (b) FLUORANTHENE	**ND**	**ND**	**ND**	**ND**
BENZO (k) FLUORANTHENE	**ND**	**ND**	**ND**	**ND**
BENZO (a) PYRENE	**ND**	**ND**	**ND**	**ND**
INDENO (1,2,3-cd) PYRENE	**ND**	**ND**	**ND**	**ND**
DIBENZO (a,h) ANTHRACENE	**ND**	**ND**	**ND**	**ND**
BENZO (ghi) PERYLENE	**ND**	**ND**	**ND**	**ND**
BENZO(i)FLUORANTHENE	**ND**	**ND**	**ND**	**ND**
BENZO(e)PYRENE	**ND**	**ND**	**ND**	**ND**

SUM (18 PAH):	**ND**	**ND**	**ND**	**ND**
ppm (part per million) =mg / kg	Requirement : Category 2 Total 18 PAH : 10 mg/kg Benzo(a)pyrene : 1 mg/kg			
Detection Limit = 0.2 ppm				
ND = Not Detected				

Estimated Total Uncertainty= ±3%

END OF TEST REPORT

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