TEST REPORT

REPORT NUMBER : **TURA140106742**

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

ADDRESS
Yenibosna Merkez Mah. 29 Ekim Cad. No:53 Bahçelievler - İstanbul
FAX NO : 0212 551 00 92
Attention : Ahmet Yüksel (ayuksel @bilgi-dagitim.com)

SAMPLE DESCRIPTION : Big point 12 colours gouache paint

BUYER : TÜKID

DATE IN : **08 July, 2014 (13:59)**

DATE OUT : **15 July, 2014**

ARTICLE NO : BPPG-1212

PHOTO OF PRODUCT TESTED :

Merve Şahin
Coordinator

Neslihan Sözer
Chemical Laboratory Manager

Intertek Test Hizmetleri A.S.
Merkez Mahallesi Sanayi Cad. No.23 Altindag Plaza Yenibosna 34197 - ISTANBUL / TURKEY
Phone : +90.212. 496 46 46 Fax: +90.212. 452 80 55
e-mail :intertekcg.turkiye@intertek.com
www.intertek-turkey.com

140106742

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

dogan.kilinc

Code	Test Method	Result	Requirements

Sample No	Tested Sample
1	MULTICOLOR CARTON
2	WHITE PLASTIC CASE
3	WHITE GOUACHE PAINT
4	PURPLE GOUACHE PAINT
5	LIGHT YELLOW GOUACHE PAINT
6	NAVY GOUACHE PAINT
7	LIGHT GREEN GOUACHE PAINT
8	BLACK GOUACHE PAINT
9	YELLOW GOUACHE PAINT
10	GREEN GOUACHE PAINT
11	BLUE GOUACHE PAINT
12	RED GOUACHE PAINT
13	LIGHT BROWN GOUACHE PAINT
14	BROWN GOUACHE PAINT
15	WHITE PLASTIC COVER
16	MULTICOLOR STICKER
17	WHITE METAL TUBE

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, 3-14, 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 1-17
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 1-16

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&3&4&5&6&7&8&9&12&13&14&16

1)Composite sample of White,purple,light yellow paint (without extraction)	<30 ppm
2)Composite sample of Navy,light green,black paint (without extraction)	<30 ppm
3)Composite sample of Yellow,green,blue paint (without extraction)	<30 ppm
4)Composite sample of Red,light brown,brown paint (without extraction)	<30 ppm
5)Multicolor sticker (without extraction)	<30 ppm
6)Multicolor corton (without extraction)	<30 ppm

INTERPRETATION OF AZO-DYES TEST RESULTS:

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

Intertek Test Hizmetleri A.S.
Merkez Mahallesi Sanayi Cad. No.23 Altindag Plaza Yenibosna 34197 - ISTANBUL / TURKEY
Phone : +90.212. 496 46 46 Fax: +90.212. 452 80 55
e-mail :intertekcg.turkiye@intertek.com
www.intertek-turkey.com

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	15 ppm	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	6 ppm	31 ppm
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

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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 15	Part 16	Part 17
Antimony	(Sb)	ND	ND	ND
Arsenic	(As)	ND	ND	ND
Barium	(Ba)	ND	ND	ND
Cadmium	(Cd)	ND	ND	ND
Chromium	(Cr)	ND	ND	ND
Lead	(Pb)	ND	ND	ND
Mercury	(Hg)	ND	ND	ND
Selenium	(Se)	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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e-mail :intertekcg.turkiye@intertek.com
www.intertek-turkey.com

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
DIBUTYL PHTHALATE (DBP)	ND	ND	ND
DIETHYL HEXYL PHTHALATE (DEHP)	ND	ND	ND
BENZYL BUTYL PHTHALATE (BBP)	ND	ND	ND
SUM OF THREE PHTHALATES	ND	ND	ND
	ND	ND	ND
DI-ISO-NONYL PHTHALATE (DINP)	ND	ND	ND
DI-N-OCTYL PHTHALATE (DNOP)	ND	ND	ND
DI-ISO-DECYL PHTHALATE (DIDP)	ND	ND	ND
SUM OF THREE PHTHALATES	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 %)

END OF TEST REPORT