

**TEST REPORT**

**REPORT NUMBER :** TURT140113856-REVISED01  
**APPLICANT NAME** **Bilgi Dağ. Kitap Kırt. ve Büro Malz. Tic. Ltd. Şti.**  
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FAX NO: 0212 551 09 57  
**Attention : Büşra Turan (busra@bilgi-dagitim.com)**  
**BUYER** **NOT GIVEN**  
**SAMPLE DESCRIPTION :**  
**Sample 1** One sample of red painting apron  
**Sample 2** One sample of yellow painting apron  
**DATE IN :** **21 July, 2014 (11:14)**  
**DATE OUT :** **11 August, 2014/ 12 August,2014**  
**ITEM NO :** BP769-01,BP769-02  
**NOTE:** In this revised 01 report, sample 1&2 item no were added by the request of the applicant. This report replaced the report no TURT140113856 dated on 11 August, 2014 and must be used instead of it.  
Report no TURT140113856 dated on 11 August, 2014 is invalid.

| TEST  | Sample 1 | Sample 2 |
|---|----------|----------|
| SAFETY OF TOYS PART 3:SPECIFICATION FOR MIGRATION OF CERTAIN ELEMENTS | P        | P        |
| PHTHALATE CONTENT   | P        | P        |
| DETECTION OF AMİNES DERİVED FROM AZOCOLOURANTS AND AZODYES            | P        | P        |

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

The test results relate only to the items tested. The whole and/or the part of this test report shall not be reproduced and shall not be shared with third parties, nor to be used for PR activities without the written permission of INTERTEK Test Hizmetleri A.S.  
The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with ISO/IEC 17025 and TURKAK accreditation requirements. Unless otherwise is specified, all Pass or Fail results are given without uncertainty considered. When uncertainty is taken into account, the result may be borderline. Borderline results need to be re-tested to determine their disposition up to customer's decision. Opinions and interpretations expressed herein are outside the scope of TURKAK accreditation. Tests marked (\*) in this test report are not included in the TURKAK accreditation schedule for this laboratory.



Melahat YILDIRIM  
COORDINATOR



Sinan ÖNCEL / Customer Care Manager  
Özlem CAVUMİRZA / Textile Laboratory Manager



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140113856

| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

### Safety of toys. Specification for Migration of Certain Elements

BS EN 71-3 : 1995

Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma-ICP\_OES.

#### Sample 1

|                         |      | <u>RESULT</u> | <u>Detection Limit</u> | <u>PASS/FAIL</u> | <u>Requirement (ppm)</u> |
|-------------------------|------|---------------|------------------------|------------------|--------------------------|
| <b>1- Orange velcro</b> |      |               |                        |                  |                          |
| Antimony                | (Sb) | <2 ppm        | <2 ppm                 | PASS             | 60                       |
| Arsenic                 | (As) | <2 ppm        | <2 ppm                 | PASS             | 25                       |
| Barium                  | (Ba) | <2 ppm        | <2 ppm                 | PASS             | 1000                     |
| Cadmium                 | (Cd) | <2 ppm        | <2 ppm                 | PASS             | 75                       |
| Chromium                | (Cr) | <5 ppm        | <5 ppm                 | PASS             | 60                       |
| Lead                    | (Pb) | <5 ppm        | <5 ppm                 | PASS             | 90                       |
| Mercury                 | (Hg) | <2 ppm        | <2 ppm                 | PASS             | 60                       |
| Selenium                | (Se) | <2 ppm        | <2 ppm                 | PASS             | 500                      |

#### 2- Orange trim

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

ppm (part per million)

=mg / kg

<

=Less Than



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| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

**Safety of toys. Specification for Migration of Certain Elements**

BS EN 71-3 : 1995

Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma-ICP\_OES.

**Sample 1**

|  | <u>RESULT</u> | <u>Detection Limit</u> | <u>PASS/FAIL</u> | <u>Requirement (ppm)</u> |
|--|---------------|------------------------|------------------|--------------------------|
| <b>3- Red main with multicolor print</b> |               |                        |                  |                          |
| Antimony (Sb)                            | <2 ppm        | <2 ppm                 | PASS             | 60                       |
| Arsenic (As)                             | <2 ppm        | <2 ppm                 | PASS             | 25                       |
| Barium (Ba)                              | <2 ppm        | <2 ppm                 | PASS             | 1000                     |
| Cadmium (Cd)                             | <2 ppm        | <2 ppm                 | PASS             | 75                       |
| Chromium (Cr)                            | <5 ppm        | <5 ppm                 | PASS             | 60                       |
| Lead (Pb)                                | <5 ppm        | <5 ppm                 | PASS             | 90                       |
| Mercury (Hg)                             | <2 ppm        | <2 ppm                 | PASS             | 60                       |
| Selenium (Se)                            | <2 ppm        | <2 ppm                 | PASS             | 500                      |



| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

**Safety of toys. Specification for Migration of Certain Elements**

BS EN 71-3 : 1995

Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma-ICP\_OES.

**Sample 2**

|                      |      | <u>RESULT</u> | <u>Detection Limit</u> | <u>PASS/FAIL</u> | <u>Requirement (ppm)</u> |
|----------------------|------|---------------|------------------------|------------------|--------------------------|
| <b>1- Navy print</b> |      |               |                        |                  |                          |
| Antimony             | (Sb) | <2 ppm        | <2 ppm                 | PASS             | 60                       |
| Arsenic              | (As) | <2 ppm        | <2 ppm                 | PASS             | 25                       |
| Barium               | (Ba) | <2 ppm        | <2 ppm                 | PASS             | 1000                     |
| Cadmium              | (Cd) | <2 ppm        | <2 ppm                 | PASS             | 75                       |
| Chromium             | (Cr) | <5 ppm        | <5 ppm                 | PASS             | 60                       |
| Lead                 | (Pb) | <5 ppm        | <5 ppm                 | PASS             | 90                       |
| Mercury              | (Hg) | <2 ppm        | <2 ppm                 | PASS             | 60                       |
| Selenium             | (Se) | <2 ppm        | <2 ppm                 | PASS             | 500                      |

**2- Navy trim**

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

ppm (part per million)  
<

=mg / kg  
=Less Than



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| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

**Safety of toys. Specification for Migration of Certain Elements**

BS EN 71-3 : 1995

Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma-ICP\_OES.

**Sample 2**

|  | <u>RESULT</u> | <u>Detection Limit</u> | <u>PASS/FAIL</u> | <u>Requirement (ppm)</u> |
|--|---------------|------------------------|------------------|--------------------------|
| <b>3- Light green main with multicolor print</b> |               |                        |                  |                          |
| Antimony (Sb)                                    | <2 ppm        | <2 ppm                 | PASS             | 60                       |
| Arsenic (As)                                     | <2 ppm        | <2 ppm                 | PASS             | 25                       |
| Barium (Ba)                                      | <2 ppm        | <2 ppm                 | PASS             | 1000                     |
| Cadmium (Cd)                                     | <2 ppm        | <2 ppm                 | PASS             | 75                       |
| Chromium (Cr)                                    | <5 ppm        | <5 ppm                 | PASS             | 60                       |
| Lead (Pb)  | <5 ppm        | <5 ppm                 | PASS             | 90                       |
| Mercury (Hg)                                     | <2 ppm        | <2 ppm                 | PASS             | 60                       |
| Selenium (Se)                                    | <2 ppm        | <2 ppm                 | PASS             | 500                      |



| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

**PHTHALATE CONTENT**

INTERTEK IHTM AL.2.026 based on EN 14372 : 2004

| 1- Composite sample of multicolor kids design (sample 1&2) |                       |
|--|-----------------------|
|  | RESULT (%, w/w)       |
| DIBUTYL PHTHALATE (DBP)                                    | Not Detected          |
| DIETHYL HEXYL PHTHALATE (DEHP)                             | Not Detected          |
| BENZYL BUTYL PHTHALATE (BBP)                               | Not Detected          |
| SUM OF THREE PHTHALATES                                    | Not Detected          |
| LIMIT (MAX.)   | TOTAL 0,1% (1000 ppm) |
|  | RESULT (%, w/w)       |
| DI-ISO-NONYL PHTHALATE (DINP)                              | Not Detected          |
| DI-N-OCTYL PHTHALATE (DNOP)                                | Not Detected          |
| DI-ISO-DECYL PHTHALATE (DIDP)                              | Not Detected          |
| SUM OF THREE PHTHALATES                                    | Not Detected          |
| LIMIT (MAX.)   | TOTAL 0,1% (1000 ppm) |

REMARK = The Limit of 0.1% by weight was quoted according to Annex XVII Items 51&52 of the REACH Regulation (EC) No.1907/2006 (Formerly known as Directive 2005/84/EC) for Phthalate Content  
 ppm (part per million) =mg / kg  
 Detection Limit = DINP, DIDP: 100 ppm, Other phthalates: 10 ppm  
 < =Less Than  
 \* =EXCEEDED LIMIT  
 COMMENT =The Phthalate Content Test Result DID NOT EXCEED The Limit Of 0.1% By Weight As Stated In European Commission Directive 2005/84/EC On 14 December 2005 Relating To Restrictions On Phthalates In Toys And Children Articles.

(Estimated Total uncertainty=± 5 %)



| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

**PHTHALATE CONTENT**

INTERTEK IHTM AL.2.026 based on EN 14372 : 2004

| <b>2- Composite sample of multicolor logo design (sample 1&amp;2)</b> |                        |
|---|------------------------|
|   | <u>RESULT (%, w/w)</u> |
| DIBUTYL PHTHALATE (DBP)   | Not Detected           |
| DIETHYL HEXYL PHTHALATE (DEHP)  | Not Detected           |
| BENZYL BUTYL PHTHALATE (BBP)  | Not Detected           |
| SUM OF THREE PHTHALATES   | Not Detected           |
| LIMIT (MAX.)  | TOTAL 0,1% (1000 ppm)  |
|   | <u>RESULT (%, w/w)</u> |
| DI-ISO-NONYL PHTHALATE (DINP)   | Not Detected           |
| DI-N-OCTYL PHTHALATE (DNOP)   | Not Detected           |
| DI-ISO-DECYL PHTHALATE (DIDP)   | Not Detected           |
| SUM OF THREE PHTHALATES   | Not Detected           |
| LIMIT (MAX.)  | TOTAL 0,1% (1000 ppm)  |

REMARK = The Limit of 0.1% by weight was quoted according to Annex XVII Items 51&52 of the REACH Regulation (EC) No.1907/2006 (Formerly known as Directive 2005/84/EC) for Phthalate Content  
 ppm (part per million) =mg / kg  
 Detection Limit = DINP, DIDP: 100 ppm, Other phthalates: 10 ppm  
 < =Less Than  
 \* =EXCEEDED LIMIT  
 COMMENT =The Phthalate Content Test Result DID NOT EXCEED The Limit Of 0.1% By Weight As Stated In European Commission Directive 2005/84/EC On 14 December 2005 Relating To Restrictions On Phthalates In Toys And Children Articles.

(Estimated Total uncertainty=± 5 %)



| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

**PHTHALATE CONTENT**

INTERTEK IHTM AL.2.026 based on EN 14372 : 2004

| <b>3- Composite sample of multicolor sticker design (sample 1&amp;2)</b> |                        |
|--|------------------------|
|  | <u>RESULT (%. w/w)</u> |
| DIBUTYL PHTHALATE (DBP)  | Not Detected           |
| DIETHYL HEXYL PHTHALATE (DEHP)   | Not Detected           |
| BENZYL BUTYL PHTHALATE (BBP)   | Not Detected           |
| SUM OF THREE PHTHALATES  | Not Detected           |
| LIMIT (MAX.)   | TOTAL 0,1% (1000 ppm)  |
|  | <u>RESULT (%. w/w)</u> |
| DI-ISO-NONYL PHTHALATE (DINP)  | Not Detected           |
| DI-N-OCTYL PHTHALATE (DNOP)  | Not Detected           |
| DI-ISO-DECYL PHTHALATE (DIDP)  | Not Detected           |
| SUM OF THREE PHTHALATES  | Not Detected           |
| LIMIT (MAX.)   | TOTAL 0,1% (1000 ppm)  |

REMARK = The Limit of 0.1% by weight was quoted according to Annex XVII Items 51&52 of the REACH Regulation (EC) No.1907/2006 (Formerly known as Directive 2005/84/EC) for Phthalate Content

ppm (part per million) =mg / kg

Detection Limit = DINP, DIDP: 100 ppm, Other phthalates: 10 ppm

< =Less Than

\* =EXCEEDED LIMIT

COMMENT =The Phthalate Content Test Result DID NOT EXCEED The Limit Of 0.1% By Weight As Stated In European Commission Directive 2005/84/EC On 14 December 2005 Relating To Restrictions On Phthalates In Toys And Children Articles.

(Estimated Total uncertainty=± 5 %)



| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

**PHTHALATE CONTENT**

INTERTEK IHTM AL.2.026 based on EN 14372 : 2004

| 4- Composite sample of navy, orange velcro (Sample 1&2) |                       |
|---|-----------------------|
|   | RESULT (%. w/w)       |
| DIBUTYL PHTHALATE (DBP)                                 | Not Detected          |
| DIETHYL HEXYL PHTHALATE (DEHP)                          | Not Detected          |
| BENZYL BUTYL PHTHALATE (BBP)                            | Not Detected          |
| SUM OF THREE PHTHALATES                                 | Not Detected          |
| LIMIT (MAX.)  | TOTAL 0,1% (1000 ppm) |
|   | RESULT (%. w/w)       |
| DI-ISO-NONYL PHTHALATE (DINP)                           | Not Detected          |
| DI-N-OCTYL PHTHALATE (DNOP)                             | Not Detected          |
| DI-ISO-DECYL PHTHALATE (DIDP)                           | Not Detected          |
| SUM OF THREE PHTHALATES                                 | Not Detected          |
| LIMIT (MAX.)  | TOTAL 0,1% (1000 ppm) |

REMARK = The Limit of 0.1% by weight was quoted according to Annex XVII Items 51&52 of the REACH Regulation (EC) No.1907/2006 (Formerly known as Directive 2005/84/EC) for Phthalate Content

ppm (part per million) =mg / kg

Detection Limit = DINP, DIDP: 100 ppm, Other phthalates: 10 ppm

< =Less Than

\* =EXCEEDED LIMIT

COMMENT =The Phthalate Content Test Result DID NOT EXCEED The Limit Of 0.1% By Weight As Stated In European Commission Directive 2005/84/EC On 14 December 2005 Relating To Restrictions On Phthalates In Toys And Children Articles.

(Estimated Total uncertainty=± 5 %)



| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

**Detection of Amines Derived From Azocolourants and Azodyes**

Test Method : BS EN 14362 - 1 : 2012 for Textile Material

Detection of Amines Derived From Azocolourants and Azodyes

- 1- Multicolor print (with extraction) (sample 1&2) <30 ppm
- 2 -Composite sample of yellow main fabric , navy trim, red main fabric (with extraction) (sample 1&2) <30 ppm
- 3- Composite sample of navy hoop and loop velcro, orange trim (with extraction) (sample 1&2) <30 ppm
- 4- Composite sample of orange hoop and loop velcro (with extraction) (sample 2) <30 ppm

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

**NOTE:** \*The amines o-amino-azotoluene and 2-amino-4-nitrotoluene are detected by its splitted product o-toluidine and 2,4- toluylenediamine.

\*\*Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4- phenylenediamine .

The presence of these colorants can not be reliably ascertained without additional information, e.g. chemical structure of the colorant used.

**Remark:**

1)ACCORDING TO THE OFFICIAL METHOD EN ISO/TS 17234:2003, IF 4-AMINODIPHENYL OR 2-NAPHTHYLAMINE OR 2,4-DIAMINOANISOLE IS FOUND EXCEEDING 30 PPM, THE USE OF FORBIDDEN AZO DYESTUFF CANNOT BE ASCERTAINED WITHOUT ADDITIONAL INFORMATION eg. THE CHEMICAL STRUCTURE OF THE DYESTUFF USED.

TEXTILE OR POLYESTER METHOD CASES ONLY.

2)AZO COLORANTS CONTENT REQUIREMENT IN ANNEX XVII ITEM 43 OF THE REACH REGULATION (EC)NO:1907/2006 FORMERLY KNOWN AS DIRECTIVE 2002/61/EC)

- < = Less Than
- N= Not Detected
- Requirement= 30 ppm
- ppm(part per million)= mg/ kg
- Detection Limit = 5 ppm



| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

Sample 1



Sample 2



## END OF TEST REPORT ##

