

## TEST RAPORU

**REPORT NUMBER :** TURT190127433  
**APPLICANT NAME** **Bilgi Dağ. Kitap Kirt. 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 water color brush  
**BUYER :** METRO BTS  
**DATE IN :** 12 July, 2019 (09:59)  
**DATE OUT :** 23 July, 2019  
**MANUFACTURER :** BİLGİ DAĞ KİTAP KIRT. VE BÜRO MALZ. TİC. LTD ŞTİ.  
**ITEM CODE :** BPFS145-02  
**PHOTO OF PRODUCT TESTED SAMPLE :**



**RESULTS :** See Attachment  
**NOTE:** Only metal part and brown coating were tested by the request of the applicant.

*Begüm Nazlı Traş*

Begüm Nazlı Traş  
Customer Care Executive

*Zeynep AKIN*

Zeynep AKIN  
Chemical Laboratory Manager

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**RESULTS :**

| Analysis Parameter            | Reference Analysis Method   | PASS | FAIL | Norm Limit   | Standard for Norm Limit | Tested Part |
|-------------------------------|---|------|------|--|-------------------------|-------------|
| Migration Of Certain Elements | EN 71-3:2013+A3:2018  | P    | -    | See Toxic Element Analysis                           | Toys Safety Directive   | Part 1-2    |
| Total Phthalate Content       | INTERTEK IHTM AL.2.026 based on EN 14372 : 2004 according to REACH Regulation | P    | -    | DBP/DEHP/BBP : 1000 ppm<br>DINP/DNOP/ DIDP :1000 ppm | KKDIK                   | Part 1      |

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

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| Part No | Tested Part   |
|---------|---------------|
| 1       | Brown coating |
| 2       | Metal part    |

Remark: Only suitable parts tested for the related tests.

## 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<br>(mg/kg) | Requirements<br>(mg/kg)<br>Category III |
|-------------------|-----------------|--------|--|--|----------------------------|---|
|                   | Part 1          | Part 2 |  |  |                            |   |
| Antimony (Sb)     | ND              | ND     |  |  | 0,125                      | 560                                     |
| Arsenic (As)      | ND              | ND     |  |  | 0,125                      | 47                                      |
| Barium (Ba)       | 469.0           | ND     |  |  | 0,125                      | 18750                                   |
| Cadmium (Cd)      | ND              | ND     |  |  | 0,125                      | 17                                      |
| Chromium (III) ** | ND              | ND     |  |  | 0,125                      | 460                                     |
| Chromium (VI) **  | ND              | ND     |  |  | 0,125                      | 0,2                                     |
| Lead (Pb)         | 0.5             | 1.3    |  |  | 0,125                      | 23                                      |
| Mercury (Hg)      | ND              | ND     |  |  | 0,0125                     | 94                                      |
| Selenium (Se)     | ND              | ND     |  |  | 0,125                      | 460                                     |
| Aluminium (Al)    | 18.7            | 1378.5 |  |  | 0,125                      | 70000                                   |
| Boron (B)         | 2.8             | ND     |  |  | 0,125                      | 15000                                   |
| Cobalt (Co)       | ND              | ND     |  |  | 0,125                      | 130                                     |
| Copper (Cu)       | ND              | ND     |  |  | 0,125                      | 7700                                    |
| Manganese (Mn)    | ND              | ND     |  |  | 0,125                      | 15000                                   |
| Nickel (Ni)       | ND              | 1.4    |  |  | 0,125                      | 930                                     |
| Strontium (Sr)    | 0.7             | ND     |  |  | 0,125                      | 56000                                   |
| Tin (Sn)          | ND              | ND     |  |  | 1,25                       | 180000                                  |
| Organic tin **    | ND              | ND     |  |  | 0,125                      | 12                                      |
| Zinc (Zn)         | 4.1             | ND     |  |  | 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

## TOTAL PHTHALATE CONTENT

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

|                                | <b>Part 1</b> |
|--------------------------------|---------------|
| DIBUTYL PHTHALATE (DBP)        | ND            |
| DIETHYL HEXYL PHTHALATE (DEHP) | 471 ppm       |
| BENZYL BUTYL PHTHALATE (BBP)   | ND            |
| SUM OF THREE PHTHALATES        | 471 ppm       |
|                                |               |
| DI-ISO-NONYL PHTHALATE (DINP)  | ND            |
| DI-N-OCTYL PHTHALATE (DNOP)    | ND            |
| DI-ISO-DECYL PHTHALATE (DIDP)  | ND            |
| SUM OF THREE PHTHALATES        | 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

## END OF TEST REPORT ##