



TEST REPORT

Job No./Report No TR748447

Date:9 July 2015

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EKONOMI BAKANLIĞI MARMARA BÖLGE MÜDÜRLÜĞÜ

ÇOBANÇEŞME MEVKII SANAYI CAD DİŞ TICARET KOMPLEKSİ D BLOK K:1 YENİBOSNA BAĞÇELİEVLER
İSTANBUL

TEL: 02124540820

FAX: 02124540822

To the attention of Hasan Uzun

The following sample(s) was (were) submitted and identified by/on behalf of the client as:

| Sample No. | Sample Description |
|------------|------------------------|
| A | Fİnger Paint BP 749-04 |

Client's reference No. : TR 748447
Buyer : Not Provided
Order No. : 36422585.330.01.02/3710
Division : Not Provided
Model/Style No. : BP749-04
Article No. : 1060
Age Grade : Not Provided
Age Group Applied : Not Provided
Application No. : A22154241
Supplier : BİLGİ DAĞITIM KİTAP KİRTASIYE VE BÜRO MALZ. TIC. LTD.STİ.
Brand : BIG POINT
Country of Origin : CHINA
Country of Destination : Not Provided
Shipment Date : Not Provided
Fiber Composition : Not Provided
Fabric Weight : Not Provided
End Use : Not Provided
Sample Receiving Date : 15 June 2015
Resubmit Date : 08 July 2015
Test Performing Period : 15 April 2015 ~ 09 July 2015

Overall Conclusion : **SEE RESULTS**

Test Results : Please refer to the next page(s).

Performed Test Summary: Selected test(s) as requested by client against Client's performance standard.

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Servisleri A. Ş.

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Test Requested : For compliance with EN71-7: 2014, Safety of toys-Part 7: Finger Paints-Requirements and test Methods.

- 1) Clause 4.2 Colourants
- 2) Clause 4.3 Preservatives
- 3) Clause 4.4 Migration of Certain Element
- 4) Clause 4.5.1 Primary Aromatic Amines
- 5) Clause 4.5.2 Other impurities
- 6) Clause 4.6 Taste and Smell
- 7) Clause 4.7 pH-value
- 8) Clause 4.8 Binding Agents, Extenders, Humectants and Surfactants
- 9) Clause 4.9 N-Nitrosamines
- 10) Clause 5 Product Information

Test Method : With reference to EN71-7: 2014.

Result Summary :

| Test Requested | Conclusion |
|---|-------------|
| EN71-7: 2014, Clause 4.2- Colourants | PASS |
| EN71-7: 2014, Clause 4.3- Preservatives | PASS |
| EN71-7: 2014, Clause 4.4-Migration of Certain Element | PASS |
| EN71-7: 2014, Clause 4.5.1- Primary Aromatic Amines | PASS |
| EN71-7: 2014, Clause 4.5.2- Other impurities | PASS |
| EN71-7: 2014, Clause 4.6 -Taste and Smell | PASS |
| EN71-7: 2014, Clause 4.7 -pH-value | PASS |
| EN71-7: 2014, Clause 4.8- Binding Agents, Extenders, Humectants and Surfactants | PASS |
| EN71-7: 2014, Clause 4.9- N-Nitrosamines | PASS |
| EN71-7: 2014, Clause 5- Product Information | See Results |

Doc.No.:CTSL-F-5.10-1NF / First Publish Date:23.08.2010 / Revision Date / No.:08.07.2015 / 4

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| Test Parameters | Result |
|--|-----------|
| Chemical tests | A1 |
| Safety of Toys (Finger Paints) EN 71-7 :2002 | * |

| | | |
|---------|---|--------------------------------|
| Remarks | : | M = Meets client's requirement |
| | | F = Below client's requirement |
| | | I = Inconclusive |
| | | * = No specified requirement |
| Notes: | Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s). | |
| | Residual sample can be returned to client if requested. | |

The test results relate to the tested items only.
Test reports without SGS seal and authorised signatures are invalid.
Reported results do not include uncertainties.

Issued in Istanbul
Signed for and on behalf of
SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.

Cenk Hacıoğlu
Customer Services Supervisor

Yağız Barın
Section Manager




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**

INTRODUCTION

Finger paints shall not contain dangerous substances or mixtures in amounts which may harm the health of children.

Ingredients have been assessed using Annexes A, B and C of the standard for meeting this requirement. The various categories of ingredients are listed below.

Test Results :

Clause 4.2 Colourants

The prescription form received from client dated 08/05/2015 listed the following colourants :

- Sample 001: Red paint: Cosmenyl Carmine FB 01
Pigment Yellow 3 [CI 11710]^{a)b)}
Sample 002: Blue paint: Pigment Green 7 [CI 74260]^{b)}
Pigment Blue 15 [CI 74160]^{c)}
Sample 003: Yellow paint: Pigment Yellow 3 [CI 11710]^{a)}
Pigment Yellow 83 [CI 21108]
Sample 004: Green paint: Pigment Green 7 [CI 74260]^{b)}
Pigment Yellow 3 [CI 11710]^{a)}

The colourants (Pigment Yellow 3 [CI 11710, CAS No.6486-23-3]^{a)}, Pigment Green 7 [CI 74260, CAS No.1328-53-6]^{b)}, Pigment Blue 15 [CI 74160, CAS No.147-14-8]^{c)} are listed in Annex A of the standard.

The colourant (Pigment Yellow 83 [CI 21108, CAS No.5567-15-7]) is not listed in Annex A of the standard. But it is not classified according to Regulation No.[EC] 1272/2008, which may also be used in finger paints.

The colourant (Cosmenyl Carmine FB 01) is not listed in Annex A of the standard. As per the SDS submitted by client, the colourant is not classified according to GHS, which may also be used in finger paints.

a). Amine limits.

Excess coupling component less than 1000 ppm

b). This substance is restricted in Regulation (EC) No 1223/2009 as follows: "Not to be used in eye products" or "Not to be used in products applied to mucous membranes", as applicable.

c). Limits as specified in existing chemical regulations in EU(see reg.(EC) No. 1907/2006 REACH, Annex XVII) respectively EU member states Pigment Blue 15:2 and 15:4 are surface treated. Before using surface treated substances, manufacturers are well advised to contact their suppliers regarding composition and hazards.

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Clause 4.3 Preservatives

The prescription form received from client dated 08/05/2015 listed the following Preservatives:

1. methenamine 3-chloroallylochloride [CAS No.4080-31-3], 0.1500% by weight in Red paint, 0.1900% by weight in Blue paint, Yellow paint and Green paint.

The preservative: methenamine 3-chloroallylochloride is a permitted substance according to Annex B of the standard. And percentage by weight has not exceeded maximum allowed concentration (0.2% by weight).

Clause 4.4 Migration of Certain Elements

Test Method: With reference to EN 71-3:2013+A1:2014, analysis was performed by ICP-MS Soluble Chromium (VI) was analyzed by IC-UV or LC-ICP-MS.

| <u>Test Item(s):</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|---------------------------------|--------------|-------------|------------|------------|
| Soluble Lead (Pb) | 3.4 | mg/kg | 0.5 | ND |
| Soluble Antimony (Sb) | 11.3 | mg/kg | 1 | ND |
| Soluble Arsenic (As) | 0.9 | mg/kg | 0.5 | ND |
| Soluble Barium (Ba) | 375 | mg/kg | 50 | ND |
| Soluble Cadmium (Cd) | 0.3 | mg/kg | 0.1 | ND |
| Soluble Chromium (III) (Cr III) | 9.4 | mg/kg | 1 | ND |
| Soluble Chromium (VI) | 0.005 | mg/kg | 0.005 | ND |
| Soluble Mercury (Hg) | 1.9 | mg/kg | 0.5 | ND |
| Soluble Selenium (Se) | 9.4 | mg/kg | 5 | ND |
| Soluble Boron (B) | 300 | mg/kg | 50 | ND |
| Soluble Cobalt (Co) | 2.6 | mg/kg | 0.5 | ND |
| Soluble Manganese (Mn) | 300 | mg/kg | 50 | ND |
| Soluble Strontium (Sr) | 1125 | mg/kg | 50 | ND |
| Soluble Zinc (Zn) | 938 | mg/kg | 50 | ND |
| Soluble Copper (Cu) | 156 | mg/kg | 50 | ND |
| Soluble Aluminum (Al) | 1406 | mg/kg | 50 | ND |
| Soluble Nickel (Ni) | 18.8 | mg/kg | 10 | ND |
| Soluble Tin (Sn) | 3750 | mg/kg | 0.08 | ND |
| Soluble Organic Tin* | 0.2 | mg/kg | - | ND |

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| <u>Test Item(s):</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>002</u> |
|---------------------------------|--------------|-------------|------------|------------|
| Soluble Lead (Pb) | 3.4 | mg/kg | 0.5 | ND |
| Soluble Antimony (Sb) | 11.3 | mg/kg | 1 | ND |
| Soluble Arsenic (As) | 0.9 | mg/kg | 0.5 | ND |
| Soluble Barium (Ba) | 375 | mg/kg | 50 | ND |
| Soluble Cadmium (Cd) | 0.3 | mg/kg | 0.1 | ND |
| Soluble Chromium (III) (Cr III) | 9.4 | mg/kg | 1 | ND |
| Soluble Chromium (VI) | 0.005 | mg/kg | 0.005 | ND |
| Soluble Mercury (Hg) | 1.9 | mg/kg | 0.5 | ND |
| Soluble Selenium (Se) | 9.4 | mg/kg | 5 | ND |
| Soluble Boron (B) | 300 | mg/kg | 50 | ND |
| Soluble Cobalt (Co) | 2.6 | mg/kg | 0.5 | ND |
| Soluble Manganese (Mn) | 300 | mg/kg | 50 | ND |
| Soluble Strontium (Sr) | 1125 | mg/kg | 50 | ND |
| Soluble Zinc (Zn) | 938 | mg/kg | 50 | ND |
| Soluble Copper (Cu) | 156 | mg/kg | 50 | ND |
| Soluble Aluminum (Al) | 1406 | mg/kg | 50 | ND |
| Soluble Nickel (Ni) | 18.8 | mg/kg | 10 | ND |
| Soluble Tin (Sn) | 3750 | mg/kg | 0.08 | ND |
| Soluble Organic Tin* | 0.2 | mg/kg | - | ND |

| <u>Test Item(s):</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>003</u> |
|---------------------------------|--------------|-------------|------------|------------|
| Soluble Lead (Pb) | 3.4 | mg/kg | 0.5 | ND |
| Soluble Antimony (Sb) | 11.3 | mg/kg | 1 | ND |
| Soluble Arsenic (As) | 0.9 | mg/kg | 0.5 | ND |
| Soluble Barium (Ba) | 375 | mg/kg | 50 | ND |
| Soluble Cadmium (Cd) | 0.3 | mg/kg | 0.1 | ND |
| Soluble Chromium (III) (Cr III) | 9.4 | mg/kg | 1 | ND |
| Soluble Chromium (VI) | 0.005 | mg/kg | 0.005 | ND |
| Soluble Mercury (Hg) | 1.9 | mg/kg | 0.5 | ND |
| Soluble Selenium (Se) | 9.4 | mg/kg | 5 | ND |
| Soluble Boron (B) | 300 | mg/kg | 50 | ND |
| Soluble Cobalt (Co) | 2.6 | mg/kg | 0.5 | ND |
| Soluble Manganese (Mn) | 300 | mg/kg | 50 | ND |
| Soluble Strontium (Sr) | 1125 | mg/kg | 50 | ND |

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| | | | | |
|-----------------------|------|-------|------|----|
| Soluble Zinc (Zn) | 938 | mg/kg | 50 | ND |
| Soluble Copper (Cu) | 156 | mg/kg | 50 | ND |
| Soluble Aluminum (Al) | 1406 | mg/kg | 50 | ND |
| Soluble Nickel (Ni) | 18.8 | mg/kg | 10 | ND |
| Soluble Tin (Sn) | 3750 | mg/kg | 0.08 | ND |
| Soluble Organic Tin* | 0.2 | mg/kg | - | ND |

| <u>Test Item(s):</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>004</u> |
|---------------------------------|--------------|-------------|------------|------------|
| Soluble Lead (Pb) | 3.4 | mg/kg | 0.5 | ND |
| Soluble Antimony (Sb) | 11.3 | mg/kg | 1 | ND |
| Soluble Arsenic (As) | 0.9 | mg/kg | 0.5 | ND |
| Soluble Barium (Ba) | 375 | mg/kg | 50 | ND |
| Soluble Cadmium (Cd) | 0.3 | mg/kg | 0.1 | ND |
| Soluble Chromium (III) (Cr III) | 9.4 | mg/kg | 1 | ND |
| Soluble Chromium (VI) | 0.005 | mg/kg | 0.005 | ND |
| Soluble Mercury (Hg) | 1.9 | mg/kg | 0.5 | ND |
| Soluble Selenium (Se) | 9.4 | mg/kg | 5 | ND |
| Soluble Boron (B) | 300 | mg/kg | 50 | ND |
| Soluble Cobalt (Co) | 2.6 | mg/kg | 0.5 | ND |
| Soluble Manganese (Mn) | 300 | mg/kg | 50 | ND |
| Soluble Strontium (Sr) | 1125 | mg/kg | 50 | ND |
| Soluble Zinc (Zn) | 938 | mg/kg | 50 | ND |
| Soluble Copper (Cu) | 156 | mg/kg | 50 | ND |
| Soluble Aluminum (Al) | 1406 | mg/kg | 50 | ND |
| Soluble Nickel (Ni) | 18.8 | mg/kg | 10 | ND |
| Soluble Tin (Sn) | 3750 | mg/kg | 0.08 | ND |
| Soluble Organic Tin* | 0.2 | mg/kg | - | ND |

Test Part Description:

- 001.Red paint
- 002.Blue paint
- 003.Yellow paint
- 004.Green paint

Note:

- (1) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN71-3: 2013+A1:2014

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Clause 4.5.1 Primary Aromatic Amines
Detection and Determination of Certain Listed Primary Aromatic Amines Derived from Azo Colorants in Finger paints (EN 71-7:2014)

Test Method: Determination of Certain Listed Primary Aromatic Amines Derived from Azo Colorants in Finger paints by Gas Chromatographic Mass Spectrometry (GC-MS)

| No. | Amines Substances | CAS-No. | Result |
|-----|--|-------------|-------------|
| | | | <u>001</u> |
| 1. | 4-Aminobiphenyl | 92-67-1 | ND |
| 2. | Benzidine | 92-87-5 | ND |
| 3. | 4-Chloro-2-methyl-aniline (4-Chloro- <i>o</i> -toluidine) | 95-69-2 | ND |
| 4. | 2-Naphthylamine | 91-59-8 | ND |
| 5. | <i>o</i> -Aminoazotoluene (4- <i>o</i> -tolylazo- <i>o</i> -toluidine) | 97-56-3 | ND |
| 6. | 2-Amino-4-nitro-toluene (5-Nitro- <i>o</i> -toluidine) | 99-55-8 | ND |
| 7. | 4-Chloroaniline | 106-47-8 | ND |
| 8. | 2,4-Diaminoanisole | 615-05-4 | ND |
| 9. | 4,4'-Diaminodiphenylmethane (4,4'-Methylenedianiline) | 101-77-9 | ND |
| 10. | 3,3'-Dichlorobenzidine | 91-94-1 | ND |
| 11. | 3,3'-Dimethoxybenzidine | 119-90-4 | ND |
| 12. | 3,3'-Dimethylbenzidine | 119-93-7 | ND |
| 13. | 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0 | ND |
| 14. | <i>p</i> -Cresidine (6-Methoxy- <i>m</i> -toluidine) | 120-71-8 | ND |
| 15. | 2,2'-Dichloro-4,4'-methylenedianiline (4,4'-Methylene-bis-2-chloroaniline) | 101-14-4 | ND |
| 16. | 4,4'-Oxydianiline | 101-80-4 | ND |
| 17. | 4,4'-Thiodianiline | 139-65-1 | ND |
| 18. | <i>o</i> -Toluidine | 95-53-4 | ND |
| 19. | 4-Methyl- <i>m</i> -phenylenediamine (Toluene-2,4-diamine) | 95-80-7 | ND |
| 20. | 2,4,5-Trimethylaniline | 137-17-7 | ND |
| 21. | 4-Aminoazobenzene | 60-09-3 | ND |
| 22. | 2-Methoxyaniline (<i>o</i> -anisidine) | 90-04-0 | ND |
| 23. | 2,4-Xylidine | 95-68-1 | ND |
| 24. | 2,6-Xylidine | 87-62-7 | ND |
| 25. | 4-Amino-3-fluorophenol | 399-95-1 | ND |
| 26. | Aniline | 62-53-3 | ND |
| 27. | 6-Amino-2-ethoxynaphthalene | 293733-21-8 | ND |
| | Overall Rating | | PASS |

| No. | Amines Substances | CAS-No. | Result |
|-----|---|---------|------------|
| | | | <u>002</u> |
| 1. | 4-Aminobiphenyl | 92-67-1 | ND |
| 2. | Benzidine | 92-87-5 | ND |
| 3. | 4-Chloro-2-methyl-aniline (4-Chloro- <i>o</i> -toluidine) | 95-69-2 | ND |

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| | | | |
|-----------------------|--|-------------|-------------|
| 4. | 2-Naphthylamine | 91-59-8 | ND |
| 5. | <i>o</i> -Aminoazotoluene (4- <i>o</i> -tolylazo- <i>o</i> -toluidine) | 97-56-3 | ND |
| 6. | 2-Amino-4-nitro-toluene (5-Nitro- <i>o</i> -toluidine) | 99-55-8 | ND |
| 7. | 4-Chloroaniline | 106-47-8 | ND |
| 8. | 2,4-Diaminoanisole | 615-05-4 | ND |
| 9. | 4,4'-Diaminodiphenylmethane (4,4'-Methylenedianiline) | 101-77-9 | ND |
| 10. | 3,3'-Dichlorobenzidine | 91-94-1 | ND |
| 11. | 3,3'-Dimethoxybenzidine | 119-90-4 | ND |
| 12. | 3,3'-Dimethylbenzidine | 119-93-7 | ND |
| 13. | 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0 | ND |
| 14. | <i>p</i> -Cresidine (6-Methoxy- <i>m</i> -toluidine) | 120-71-8 | ND |
| 15. | 2,2'-Dichloro-4,4'-methylenedianiline (4,4'-Methylene-bis-2-chloroaniline) | 101-14-4 | ND |
| 16. | 4,4'-Oxydianiline | 101-80-4 | ND |
| 17. | 4,4'-Thiodianiline | 139-65-1 | ND |
| 18. | <i>o</i> -Toluidine | 95-53-4 | ND |
| 19. | 4-Methyl- <i>m</i> -phenylenediamine (Toluene-2,4-diamine) | 95-80-7 | ND |
| 20. | 2,4,5-Trimethylaniline | 137-17-7 | ND |
| 21. | 4-Aminoazobenzene | 60-09-3 | ND |
| 22. | 2-Methoxyaniline (<i>o</i> -anisidine) | 90-04-0 | ND |
| 23. | 2,4-Xylidine | 95-68-1 | ND |
| 24. | 2,6-Xylidine | 87-62-7 | ND |
| 25. | 4-Amino-3-fluorophenol | 399-95-1 | ND |
| 26. | Aniline | 62-53-3 | ND |
| 27. | 6-Amino-2-ethoxynaphthalene | 293733-21-8 | ND |
| Overall Rating | | | PASS |

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| <u>No.</u> | <u>Amines Substances</u> | <u>CAS-No.</u> | <u>Result</u> |
|------------|--|----------------|---------------|
| | | | <u>003</u> |
| 1. | 4-Aminobiphenyl | 92-67-1 | ND |
| 2. | Benzidine | 92-87-5 | ND |
| 3. | 4-Chloro-2-methyl-aniline (4-Chloro- <i>o</i> -toluidine) | 95-69-2 | ND |
| 4. | 2-Naphthylamine | 91-59-8 | ND |
| 5. | <i>o</i> -Aminoazotoluene (4- <i>o</i> -tolylazo- <i>o</i> -toluidine) | 97-56-3 | ND |
| 6. | 2-Amino-4-nitro-toluene (5-Nitro- <i>o</i> -toluidine) | 99-55-8 | ND |
| 7. | 4-Chloroaniline | 106-47-8 | ND |
| 8. | 2,4-Diaminoanisoole | 615-05-4 | ND |
| 9. | 4,4'-Diaminodiphenylmethane (4,4'-Methylenedianiline) | 101-77-9 | ND |
| 10. | 3,3'-Dichlorobenzidine | 91-94-1 | ND |
| 11. | 3,3'-Dimethoxybenzidine | 119-90-4 | ND |
| 12. | 3,3'-Dimethylbenzidine | 119-93-7 | ND |
| 13. | 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0 | ND |
| 14. | <i>p</i> -Cresidine (6-Methoxy- <i>m</i> -toluidine) | 120-71-8 | ND |
| 15. | 2,2'-Dichloro-4,4'-methylenedianiline (4,4'-Methylene-bis-2-chloroaniline) | 101-14-4 | ND |
| 16. | 4,4'-Oxydianiline | 101-80-4 | ND |
| 17. | 4,4'-Thiodianiline | 139-65-1 | ND |
| 18. | <i>o</i> -Toluidine | 95-53-4 | ND |
| 19. | 4-Methyl- <i>m</i> -phenylenediamine (Toluene-2,4-diamine) | 95-80-7 | ND |
| 20. | 2,4,5-Trimethylaniline | 137-17-7 | ND |
| 21. | 4-Aminoazobenzene | 60-09-3 | ND |
| 22. | 2-Methoxyaniline (<i>o</i> -anisidine) | 90-04-0 | ND |
| 23. | 2,4-Xylidine | 95-68-1 | ND |
| 24. | 2,6-Xylidine | 87-62-7 | ND |
| 25. | 4-Amino-3-fluorophenol | 399-95-1 | ND |
| 26. | Aniline | 62-53-3 | ND |
| 27. | 6-Amino-2-ethoxynaphthalene | 293733-21-8 | ND |
| | Overall Rating | | PASS |

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| No. | Amines Substances | CAS-No. | Result |
|-----|--|-------------|-------------|
| | | | <u>004</u> |
| 1. | 4-Aminobiphenyl | 92-67-1 | ND |
| 2. | Benzidine | 92-87-5 | ND |
| 3. | 4-Chloro-2-methyl-aniline (4-Chloro- <i>o</i> -toluidine) | 95-69-2 | ND |
| 4. | 2-Naphthylamine | 91-59-8 | ND |
| 5. | <i>o</i> -Aminoazotoluene (4- <i>o</i> -tolylazo- <i>o</i> -toluidine) | 97-56-3 | ND |
| 6. | 2-Amino-4-nitro-toluene (5-Nitro- <i>o</i> -toluidine) | 99-55-8 | ND |
| 7. | 4-Chloroaniline | 106-47-8 | ND |
| 8. | 2,4-Diaminoanisole | 615-05-4 | ND |
| 9. | 4,4'-Diaminodiphenylmethane (4,4'-Methylenedianiline) | 101-77-9 | ND |
| 10. | 3,3'-Dichlorobenzidine | 91-94-1 | ND |
| 11. | 3,3'-Dimethoxybenzidine | 119-90-4 | ND |
| 12. | 3,3'-Dimethylbenzidine | 119-93-7 | ND |
| 13. | 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0 | ND |
| 14. | <i>p</i> -Cresidine (6-Methoxy- <i>m</i> -toluidine) | 120-71-8 | ND |
| 15. | 2,2'-Dichloro-4,4'-methylenedianiline (4,4'-Methylene-bis-2-chloroaniline) | 101-14-4 | ND |
| 16. | 4,4'-Oxydianiline | 101-80-4 | ND |
| 17. | 4,4'-Thiodianiline | 139-65-1 | ND |
| 18. | <i>o</i> -Toluidine | 95-53-4 | ND |
| 19. | 4-Methyl- <i>m</i> -phenylenediamine (Toluene-2,4-diamine) | 95-80-7 | ND |
| 20. | 2,4,5-Trimethylaniline | 137-17-7 | ND |
| 21. | 4-Aminoazobenzene | 60-09-3 | ND |
| 22. | 2-Methoxyaniline (<i>o</i> -anisidine) | 90-04-0 | ND |
| 23. | 2,4-Xylidine | 95-68-1 | ND |
| 24. | 2,6-Xylidine | 87-62-7 | ND |
| 25. | 4-Amino-3-fluorophenol | 399-95-1 | ND |
| 26. | Aniline | 62-53-3 | ND |
| 27. | 6-Amino-2-ethoxynaphthalene | 293733-21-8 | ND |
| | Overall Rating | | PASS |

Test Part Description:

- 001.Red paint
- 002.Blue paint
- 003.Yellow paint
- 004.Green paint

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- Note: ND = Not detected
Detection Limit = 5 ppm (mg/kg)
- Requirement: (1)Benzidine, 2-Naphthylamine, 4-Chloro-2-methyl-aniline (4-Chloro-o-toluidine), 4-Aminobiphenyl shall not be determinable.
(2)No individual amine exceeding 10 ppm (mg/kg) with the exception of those amines listed in requirement (1).
(3)No amine exceeding 20 ppm (mg/kg) in total amount with the exception of those amines listed in requirement (1).

Clause 4.5.2 Other impurities
Polychlorinated Biphenyls (PCBs)

Test Method: With reference to EN71-7: 2014 Annex E, analysis was performed by GC-MS.

| Test Item(s): | Limit | CAS No. | Unit | MDL | 001 |
|---|-------|------------|-------|-----|-----|
| 2,4,4'-Trichlorobiphenyl (PCB 28) | - | 7012-37-5 | mg/kg | 0.2 | ND |
| 2,2',5,5'-Tetrachloro-biphenyl (PCB 52) | - | 35693-99-3 | mg/kg | 0.2 | ND |
| 2,2',4,5,5'-Pentachloro-biphenyl (PCB 101) | - | 37680-73-2 | mg/kg | 0.2 | ND |
| 2,3',4,4',5-Pentachlorobiphenyl (PCB 118) | - | 31508-00-6 | mg/kg | 0.2 | ND |
| 2,2',3,4,4',5'-Hexachloro-biphenyl (PCB 138) | - | 35065-28-2 | mg/kg | 0.2 | ND |
| 2,2',4,4',5,5'-Hexachloro-biphenyl (PCB 153) | - | 35065-27-1 | mg/kg | 0.2 | ND |
| 2,2',3,4,4',5,5'- Heptachlorobiphenyl (PCB 180) | - | 35065-29-3 | mg/kg | 0.2 | ND |
| Total PCBs | 2 | - | mg/kg | - | ND |

| Test Item(s): | Limit | CAS No. | Unit | MDL | 002 |
|---|-------|------------|-------|-----|-----|
| 2,4,4'-Trichlorobiphenyl (PCB 28) | - | 7012-37-5 | mg/kg | 0.2 | ND |
| 2,2',5,5'-Tetrachloro-biphenyl (PCB 52) | - | 35693-99-3 | mg/kg | 0.2 | ND |
| 2,2',4,5,5'-Pentachloro-biphenyl (PCB 101) | - | 37680-73-2 | mg/kg | 0.2 | ND |
| 2,3',4,4',5-Pentachlorobiphenyl (PCB 118) | - | 31508-00-6 | mg/kg | 0.2 | ND |
| 2,2',3,4,4',5'-Hexachloro-biphenyl (PCB 138) | - | 35065-28-2 | mg/kg | 0.2 | ND |
| 2,2',4,4',5,5'-Hexachloro-biphenyl (PCB 153) | - | 35065-27-1 | mg/kg | 0.2 | ND |
| 2,2',3,4,4',5,5'- Heptachlorobiphenyl (PCB 180) | - | 35065-29-3 | mg/kg | 0.2 | ND |
| Total PCBs | 2 | - | mg/kg | - | ND |

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| <u>Test Item(s):</u> | <u>Limit</u> | <u>CAS No.</u> | <u>Unit</u> | <u>MDL</u> | <u>003</u> |
|---|--------------|----------------|-------------|------------|------------|
| 2,4,4'-Trichlorobiphenyl (PCB 28) | - | 7012-37-5 | mg/kg | 0.2 | ND |
| 2,2',5,5'-Tetrachloro-biphenyl (PCB 52) | - | 35693-99-3 | mg/kg | 0.2 | ND |
| 2,2',4,5,5'-Pentachloro-biphenyl (PCB 101) | - | 37680-73-2 | mg/kg | 0.2 | ND |
| 2,3',4,4',5-Pentachlorobiphenyl (PCB 118) | - | 31508-00-6 | mg/kg | 0.2 | ND |
| 2,2',3,4,4',5'-Hexachloro-biphenyl (PCB 138) | - | 35065-28-2 | mg/kg | 0.2 | ND |
| 2,2',4,4',5,5'-Hexachloro-biphenyl (PCB 153) | - | 35065-27-1 | mg/kg | 0.2 | ND |
| 2,2',3,4,4',5,5'- Heptachlorobiphenyl (PCB 180) | - | 35065-29-3 | mg/kg | 0.2 | ND |
| Total PCBs | 2 | - | mg/kg | - | ND |

| <u>Test Item(s):</u> | <u>Limit</u> | <u>CAS No.</u> | <u>Unit</u> | <u>MDL</u> | <u>004</u> |
|---|--------------|----------------|-------------|------------|------------|
| 2,4,4'-Trichlorobiphenyl (PCB 28) | - | 7012-37-5 | mg/kg | 0.2 | ND |
| 2,2',5,5'-Tetrachloro-biphenyl (PCB 52) | - | 35693-99-3 | mg/kg | 0.2 | ND |
| 2,2',4,5,5'-Pentachloro-biphenyl (PCB 101) | - | 37680-73-2 | mg/kg | 0.2 | ND |
| 2,3',4,4',5-Pentachlorobiphenyl (PCB 118) | - | 31508-00-6 | mg/kg | 0.2 | ND |
| 2,2',3,4,4',5'-Hexachloro-biphenyl (PCB 138) | - | 35065-28-2 | mg/kg | 0.2 | ND |
| 2,2',4,4',5,5'-Hexachloro-biphenyl (PCB 153) | - | 35065-27-1 | mg/kg | 0.2 | ND |
| 2,2',3,4,4',5,5'- Heptachlorobiphenyl (PCB 180) | - | 35065-29-3 | mg/kg | 0.2 | ND |
| Total PCBs | 2 | - | mg/kg | - | ND |

Hexachlorobenzene

Test Method: With reference to EN71-7: 2014 Annex E, analysis was performed by GC-MS.

| <u>Test Item(s):</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> | <u>002</u> |
|----------------------|--------------|-------------|------------|------------|------------|
| Hexachlorobenzene | 5 | mg/kg | 0.5 | ND | ND |

| <u>Test Item(s):</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>003</u> | <u>004</u> |
|----------------------|--------------|-------------|------------|------------|------------|
| Hexachlorobenzene | 5 | mg/kg | 0.5 | ND | ND |

Clause 4.6 Taste and Smell

Every sample has the same embittering agent and content. The prescription form received from client dated 08/05/2015 gave denatonium benzoate [CAS No.3734-33-6, 0.0004% by weight] which is a permitted substance according to Clause 4.6 of the standard.

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Clause 4.7 pH Value

| | | | |
|----------|------------|------------|--------------|
| | <u>001</u> | <u>002</u> | <u>Limit</u> |
| pH value | 8.9 | 8.8 | > 4 and < 10 |

| | | | |
|----------|------------|------------|--------------|
| | <u>003</u> | <u>004</u> | <u>Limit</u> |
| pH value | 8.7 | 9.0 | > 4 and < 10 |

Note: pH of the finished product shall not below than 6 if content with 4,4-Dimethyl-1,3-oxazolidine in finished product

Test Part Description:

001.Red paint
002.Blue paint
003.Yellow paint
004.Green paint

Note : < = less than
> = more than

Clause 4.8 Binding Agents, Extenders, Humectants and Surfactants

The prescription form received from client dated 08/05/2015 gave KAOLIN [CAS No.1332-58-7], silicon dioxide [CAS No.7631-86-9] as extenders which are listed in Annex C of the standard.

The prescription form received from client dated 08/05/2015 also gave water as extender which is not classified according to Regulation No.[EC] 1272/2008, and may also be used in finger paints.

Clause 4.9 N-Nitrosamines

Test Method: With reference to EN 71-12:2013 clause 7.2 ,clause 8 & clause 9.1, analysis was performed by LC-MS-MS

| <u>Test Item(s):</u> | <u>Maximum Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|-----------------------------------|--------------------------|-------------|------------|------------|
| N-Nitrosodiethanolamine(NDELA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodimethylamine(NDMA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodiethylamine(NDEA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodipropylamine(NDPA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodiisopropylamine (NDiPA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodibutylamine(NDBA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodiisobutylamine (NDiBA,) | - | mg/kg | 0.02 | ND |

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| | | | | |
|--|------|-------|------|----|
| N-Nitrosodiisononylamine (NDiNA) | - | mg/kg | 0.02 | ND |
| N-Nitrosomorpholine(NMOR) | - | mg/kg | 0.02 | ND |
| N-Nitrosopiperidine (NPIP) | - | mg/kg | 0.02 | ND |
| N-Nitrosodibenzylamine(NDBzA) | - | mg/kg | 0.02 | ND |
| N-Nitroso-N-methyl-N-phenylamine (NMPHA) | - | mg/kg | 0.02 | ND |
| N-Nitroso-N-ethyl-N-phenylamine (NEPhA) | - | mg/kg | 0.02 | ND |
| Sum of N-Nitrosamines | 0.02 | mg/kg | - | ND |

| Test Item(s): | Maximum Limit | Unit | MDL | 002 |
|--|---------------|-------|------|-----|
| N-Nitrosodiethanolamine(NDELA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodimethylamine(NDMA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodiethylamine(NDEA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodipropylamine(NDPA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodiisopropylamine (NDiPA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodibutylamine(NDBA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodiisobutylamine (NDiBA,) | - | mg/kg | 0.02 | ND |
| N-Nitrosodiisononylamine (NDiNA) | - | mg/kg | 0.02 | ND |
| N-Nitrosomorpholine(NMOR) | - | mg/kg | 0.02 | ND |
| N-Nitrosopiperidine (NPIP) | - | mg/kg | 0.02 | ND |
| N-Nitrosodibenzylamine(NDBzA) | - | mg/kg | 0.02 | ND |
| N-Nitroso-N-methyl-N-phenylamine (NMPHA) | - | mg/kg | 0.02 | ND |
| N-Nitroso-N-ethyl-N-phenylamine (NEPhA) | - | mg/kg | 0.02 | ND |
| Sum of N-Nitrosamines | 0.02 | mg/kg | - | ND |

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| <u>Test Item(s):</u> | <u>Maximum Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>003</u> |
|--|----------------------|-------------|------------|------------|
| N-Nitrosodiethanolamine(NDELA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodimethylamine(NDMA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodiethylamine(NDEA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodipropylamine(NDPA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodiisopropylamine (NDiPA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodibutylamine(NDBA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodiisobutylamine (NDiBA,) | - | mg/kg | 0.02 | ND |
| N-Nitrosodiisononylamine (NDiNA) | - | mg/kg | 0.02 | ND |
| N-Nitrosomorpholine(NMOR) | - | mg/kg | 0.02 | ND |
| N-Nitrosopiperidine (NPIP) | - | mg/kg | 0.02 | ND |
| N-Nitrosodibenzylamine(NDBZA) | - | mg/kg | 0.02 | ND |
| N-Nitroso-N-methyl-N-phenylamine (NMPHA) | - | mg/kg | 0.02 | ND |
| N-Nitroso-N-ethyl-N-phenylamine (NEPhA) | - | mg/kg | 0.02 | ND |
| Sum of N-Nitrosamines | 0.02 | mg/kg | - | ND |

| <u>Test Item(s):</u> | <u>Maximum Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>004</u> |
|--|----------------------|-------------|------------|------------|
| N-Nitrosodiethanolamine(NDELA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodimethylamine(NDMA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodiethylamine(NDEA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodipropylamine(NDPA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodiisopropylamine (NDiPA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodibutylamine(NDBA) | - | mg/kg | 0.02 | ND |
| N-Nitrosodiisobutylamine (NDiBA,) | - | mg/kg | 0.02 | ND |
| N-Nitrosodiisononylamine (NDiNA) | - | mg/kg | 0.02 | ND |
| N-Nitrosomorpholine(NMOR) | - | mg/kg | 0.02 | ND |
| N-Nitrosopiperidine (NPIP) | - | mg/kg | 0.02 | ND |
| N-Nitrosodibenzylamine(NDBZA) | - | mg/kg | 0.02 | ND |
| N-Nitroso-N-methyl-N-phenylamine (NMPHA) | - | mg/kg | 0.02 | ND |
| N-Nitroso-N-ethyl-N-phenylamine (NEPhA) | - | mg/kg | 0.02 | ND |
| Sum of N-Nitrosamines | 0.02 | mg/kg | - | ND |

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Test Part Description:

- 001.Red paint
- 002.Blue paint
- 003.Yellow paint
- 004.Green paint

Clause 5 Product Information

The product packaging had the Manufacture's identification, Labelling phrases, Indication of preservative(s) and embittering agent(s) according to Clause 5 of the standard.

There are four containers in product packaging, according to clause 5, the container shall bear the name, trade name and/or trade mark and the address of the manufacturer, his authorized representative or the importer. But these information were not given on the four containers.

Remark:

1. The result is only fit for the electronic artwork, which is provided by client.
2. Product information assesment is only based on English information. According to client, english information and Turkish information are the same

Remark:

1. Primary Aromatic Amines: These tests were subcontracted to SGS Ningbo Chemical Lab.
2. Results shown are of the total weight of wet samples.

**** These test have been performed at SGS SHANGHAI as subcontracted.**

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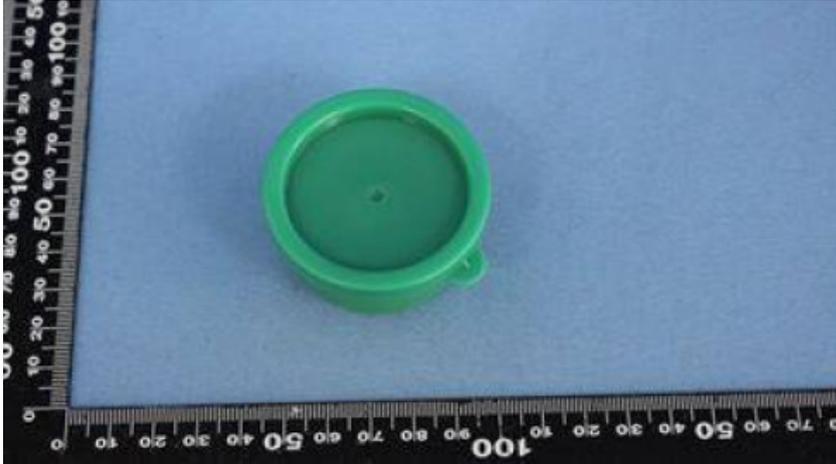


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* * * End of Test Report * * *

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