

#### TEST REPORT Job No./Report No TR672908

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## EKONOMI BAKANLIĞI MARMARA BÖLGE MÜDÜRLÜĞÜ

ÇOBANÇEŞME MEVKII SANAYI CAD DIŞ TICARET KOMPLEKSI D BLOK K:1 YENIBOSNA BAHÇELIEVLER **İSTANBÜL** TEL: 4540820 FAX: 04540822

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	Finger Paint Orange BP749-52	
Client's reference N	lo. :	TR 672908
Buyer	:	Hardline
Order No.	:	36422585.330.01.02/3710
Division	:	Toys
Model/Style No.	:	BP749-52
Article No.	:	1060
Age Grade	:	Not Provided
Application No.	:	A22154241
Age Group	:	Not Provided
Supplier Brand	:	Bilgi Dağıtım Kitap Kırtasiye ve Büro Malzemeleri Tic.Ltd.Şt Big Point
Country of Origin	:	CHINA
Country of Destinati	ion :	Not Provided
Shipment Date	:	Not Provided
Fiber Composition	:	Not Provided
Fabric Weight	:	Not Provided
End Use	:	Not Provided
Sample Receiving D	Date :	30 September 2014
Resubmit Date	:	23 December 2014
Test Performing Per	riod :	30 September 2014 ~ 29 December 2014
Overall Conclusion	:	SEE RESULTS
Test Results	:	Please refer to the next page(s).
Performed Test Sum	imary: Se	lected test(s) as requested by client against Client's performance sta

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**Test Requested** 

: For compliance with EN71-7: 2014, Safety of toys-Part 7: Finger

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

: With reference to EN71-7: 2014.

10) Clause 5 Product Information

Test Method

**Test Results** 

: Please refer to next page

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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

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Test Parameters	Result
Chemical tests	<u>A</u>
Colourants	М
Preservatives	Μ
Migration of Certain Element	Μ
Primary Aromatic Amines	Μ
Other Impurities	Μ
Taste and Smell	Μ
pH Value	Μ
Binding Agents, Extenders, Humectants and	Μ
Surfactants	
N-Nitrosamines	М
Product Information	*

Remarks	3	:	M = Meets client's requirement
F = Below 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.

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Doc. No.: CTSL-F-5.10-1NF / First Publish Date: 23.08.2010 / Revision Date / No.:17.04.2014 /

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.

Eylem Yaldızlı	Yağız Barın	
Customer Services Team Leader	Yağız Barın Section Manager	
Aug	SGS SMULLAR STORE	

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TEST REPORT

### 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 07/11/2014 listed the following colourant:

Pigment Orange 6 [CI Number 21110]

The colourant (Pigment Orange 6 [CI 21110, CAS No.3520-72-7] is a permitted substance according to Annex A of the standard.

#### Clause 4.3 Preservatives

The prescription form received from client dated 07/11/2014 listed the following Preservative:

1. methenamine 3-chloroallylochloride [CAS No. 4080-31-3], 0.19% by weight.

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.

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#### Migration of Certain Elements Clause 4.4

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

Test Item(s):	<u>Limit</u>	<u>Unit</u>	MDL	001
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	0.11
<ul> <li>Methyl tin (MeT)</li> </ul>	-	mg/kg	0.14	ND
Di-n-propyl tin (DProT)	-	mg/kg	0.14	ND
<ul> <li>Dibutyl tin (DBT)</li> </ul>	-	mg/kg	0.14	ND
Tributyl tin (TBT)	-	mg/kg	0.14	ND
<ul> <li>n-Octyl tin (MOT)</li> </ul>	-	mg/kg	0.14	ND
Tetrabutyl tin (TeBT)	-	mg/kg	0.14	ND
Diphenyl tin (DPhT)	-	mg/kg	0.14	ND
Di-n-octyl tin (DOT)	-	mg/kg	0.14	ND
Triphenyl tin (TPhT)	-	mg/kg	0.14	ND
AButyl tin (BuT)	-	mg/kg	0.14	ND
Sum of Soluble Organic Tin	0.2	mg/kg	-	ND

Test Part Description:

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001.Orange finger paint

Note:

- (1) ^ means the Organic Tin specified in EN 71-3:2013 and it is analyzed by GC-MS
- (2) \*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

#### 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 001
1.	4-Aminobiphenyl	92-67-1	ND
2.	Benzidine	92-87-5	ND
3.	4-Chloro-2-methyl-aniline (4-Chloro-o- toluidine)	95-69-2	ND
4.	2-Naphthylamine	91-59-8	ND
5.	o-Aminoazotoluene (4-o-tolyazo-o-toluidine)	97-56-3	ND
6.	2-Amino-4-nitro-toluene (5-Nitro-o-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.	p-Cresidine (6-Methoxy-m-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'-Thíodianiline	139-65-1	ND
18.	o-Toluidine	95-53-4	ND
19.	4-Methyl-m-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 (o-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

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6-Amino-2-ethoxynaphthalene 27. **Overall Rating** 

293733-21-8

ND PASS

Test Part Description: 001.Orange finger paint

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

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### 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.

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Test Item(s):	<u>Limit</u>	CAS No,	<u>Unit</u>	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

### Hexachlorobenzene

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

Test Item(s):	Limit	Unit	MDL	001
Hexachlorobenzene	5	mg/kg	0.5	ND

Test Part Description: 001.Orange finger paint

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#### Clause 4.6a Taste and Smell (Embittering Agents)

The prescription form received from client dated 07/11/2014 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.

#### Clause 4.7 pH Value

001 Limit pH value 8.6 > 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.Orange finger paint

Note : < = less than > = more than

#### Binding Agents, Extenders, Humectants and Surfactants Clause 4.8

The prescription form received from client dated 07/11/2014 gave Kaolin [CAS No. 1332-58-7] and silicon dioxide [CAS No. 7631-86-9] which are the permitted substances according to Annex C of the standard.

The prescription form received from client dated 07/11/2014 gave water [CAS No. 7732-18-5] which is n nonhazardous 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

Test Item(s):	Maximum Limit	<u>Unit</u>	MDL	<u>001</u>
N-Nitrosodiethanolamine(NDELA)	-	mg/kg	0.02	ND
N-Nitrosodimethylamine(NDMA)	-	mg/kg	0.02	ND
N-Nitrosodiethylamie(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

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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 Part Description: 001.Orange finger paint

#### Clause 5 Product Information

The product containers had the Manufacture's identification and Labelling phrases according to Clause 5 of the standard.

Note: The result is only fit for the electronic artwork, which is provided by client.

Remark: Results shown are of the total weight of wet samples.

\*\* These tests have been performed at SGS Shangai as subcontarcted.

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Doc. No.: CTSL-F-5.10-1NF / First Publish Date: 23.08.2010 / Revision Date / No.:17.04.2014 / 3

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End of Test Report

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