

TEST REPORT Job

Job No./Report No TR672920

Date:30 December 2014Page 1 of 12

EKONOMI BAKANLIĞI MARMARA BÖLGE MÜDÜRLÜĞÜ

ÇOBANÇEŞME MEVKII SANAYI CAD DIŞ TICARET KOMPLEKSI D BLOK K:1 YENIBOSNA BAHÇELIEVLER İSTANBUL 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 F	FINGER PAINT PINK (BP749-53)		
Client's reference No	o. : TR 672920		
Buyer	: Hardline		
Order No.	: 36422585.330.01.02/3710		
Division	: Toys		
Model/Style No.	: BP749-53		
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.Şti Big Point 		
Country of Origin	: CHINA		
Country of Destination	on : Not Provided		
Shipment Date	: Not Provided		
Fiber Composition	: Not Provided		
Fabric Weight	: Not Provided		
End Use	: Not Provided		
Sample Receiving D			
Resubmit Date	: 23 December 2014		
Test Performing Per	riod : 30 October 2014 ~ 30 December 2014		
Overall Conclusion	: SEE RESULTS		
Test Results	: Please refer to the next page(s).		
Performed Test Sum	mary: Selected test(s) as requested by client against Client's performance sta		

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

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Job No./Report No TR672920

Test Requested

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

- Paints-Requirements and test Methods.
- Clause 4.2 Colourants 1)
- 2) Clause 4.3 Preservatives
- 3) Clause 4.4 Migration of Certain Element
- 4) Clause 4.5.1 Primary Aromatic Amines
- Clause 4.5.2 Other impurities 5)
- 6) Clause 4.6 Taste and Smell
- 7)

: With reference to EN71-7: 2014.

Clause 4.7 pH-value Clause 4.8 Binding Agents, Extenders, Humectants and Surfactants 8)

Date:30 December 2014Page 2 of 12

- Clause 4.9 N-Nitrosamines 9)
- Clause 5 Product Information 10)

Test Method **Test Results**

: Please refer to next page

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 REPORT

Job No./Report No TR672920

Date:30 December 2014Page 3 of 12

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

Remarks	3	:	M = Meets client's requirement
			F = Below client's requirement
	I = Inconclusive		
* = No specified requirement		* = 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.		

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Job No./Report No TR672920

Date:30 December 2014Page 4 of 12

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.

Eylem Yaldızlı **Customer Services Team Leader**

TEST REPORT

Yağız Barın Section Manager

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Job No./Report No TR672920

Date:30 December 2014Page 5 of 12

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

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 White 6 [CI Number 77891]

Cosmenyl Carmine FB01

The colourant (Pigment White 6 [CI 77891, CAS No.13463-67-7] is a permitted substance according to Annex A of the standard.

The colourant Cosmenyl Carmine FB01 is not listed in Annex A. As per the SDS submitted by client, this colourants is not classified as dangerous according to Directive 1999/45/EC and Regulation No. [EC] 1272/2008, which may also be used in finger paints.

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], 0.15% 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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Job No./Report No TR672920

Date:30 December 2014Page 6 of 12

Clause 4.4 Migration of Certain Elements

Test Method: With reference to EN 71-3:2013, analysis was performed by ICP-MS

Test Item(s):	Limit	Unit	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	77
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.Pink finger paint

Note:

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

- Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN71-3: 2013.
- (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)

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Job No./Report No TR672920

Date:30 December 2014Page 7 of 12

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

<u>No.</u>	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- <i>o</i> - 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-toluène (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'-Thiodianiline	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
27.	6-Amino-2-ethoxynaphthalene	293733-21-8	ND
Ove	rall Rating		PASS

Test Part Description:

001.Pink finger paint

Note:

ND = Not detected

Detection Limit = 5 ppm (mg/kg)

These tests were subcontracted to SGS Ningbo CHEMICAL Lab.

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Job No./Report No TR672920

Date:30 December 2014Page 8 of 12

 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): 2,4,4'-Trichlorobiphenyl (PCB 28)	Limit -	<u>CAS No.</u> 7012-37-5	<u>Unit</u> mg/kg	<u>MDL</u> 0.2	<u>001</u> 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):	<u>Limit</u>	<u>Unit</u>	MDL	001
Hexachlorobenzene	5	mg/kg	0.5	ND

Test Part Description: 001.Pink finger paint

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

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.

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TEST REPORT

Job No./Report No TR672920

Date:30 December 2014Page 9 of 12

Clause 4.7 pH Value

	001	Limit
pH value	8.7	> 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.Pink finger paint

Note : < = less than > = more than

Clause 4.8 Binding Agents, Extenders, Humectants and Surfactants

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):	<u>Maximum</u> Limit	<u>Unit</u>	MDL	<u>001</u>
N-Nitrosodiethanolamine(NDELA)	-	mg/kg	0.02	0.022
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
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

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Job No./Report No TR672920

Date:30 December 2014Page 10 of 12

Sum of N-Nitrosamines

0.02 mg/kg 0.022#

Test Part Description: 001.Pink finger paint

Note: #=Exceed the limit

Product Information Clause 5

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 Shanghai as subcontracted.

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Date:30 December 2014Page 11 of 12



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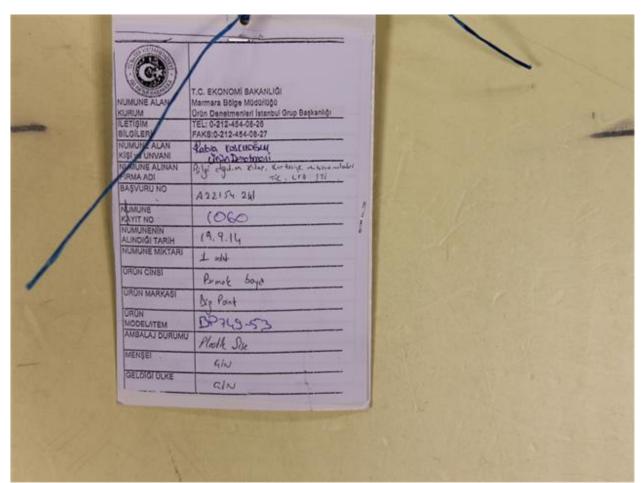
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Date:30 December 2014Page 12 of 12



End of Test Report

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