

TEST REPORT

Job No./Report No TR769661

Date:7 July 2015

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CEREN KAĞIT VE KIRTASIYE SAN AŞ

OSB ZIYA GOKALP MH ESKI TURGUT OZAL CD HATESAD IS MERK BASAKSEHIR ISTANBUL

TEL: 02124070888

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To the attention of Figen Toprak

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

Sample No.	Sample Description
A	Triangle Stick Glue

Client's reference No. : TR 769661
Buyer : Hardline
Order No. : Not Provided
Division : Stationery
Model/Style No. : Not Provided
Article No. : Not Provided
Age Grade : +3
Age Group Applied : +3
Manufacturer : Not Provided
Country of Origin : Not Provided
Country of Destination : Not Provided
Shipment Date : Not Provided
Fiber Composition : Not Provided
Fabric Weight : Not Provided
End Use : Not Provided
Sample Receiving Date : 26 May 2015
Resubmit Date : 01 July 2015
Test Performing Period : 26 May 2015 ~ 07 July 2015

Overall Conclusion : **PASS**

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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Test Requested	Conclusion
1.	<p>EN 71-3:2013 – Safety of toys – Part 3 – Migration of certain elements (Selected tests item as specified by the applicant, please refer to test result page(s) for details)</p>
	PASS

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Test Parameters	Result			
	A1	A2	A3	A4
Chemical tests				
Migration of Certain Elements-Organic Tins Confirmation	-	-	-	M
Phthalates	M	-	-	M
Primary Aromatic Amines	-	M	M	M
Migration of Certain Elements - Category II-By the first action test method	-	-	-	M
Migration of Certain Elements - Category III By the first action test method	M	M	M	-

Test Parameters	Result
	A
Physical tests	
EN 71 Part 1:2011+A3:2014-Mechanical and Physical Test	M
EN 71 Part 2:2011+A1:2014-Flammability of Toys	M

Remarks	:	M = Meets client's requirement
		F = Below client's requirement
		I = Inconclusive
		* = No specified requirement
		# = For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, therefore, it is recommended to test on individual basis.
Notes:	Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s).	
	The composite sampling method is based on the client's special request and is a modification from the testing standard.	
	Residual sample can be returned to client if requested.	

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The test results relate to the tested items only.
Test reports without SGS seal and authorized signatures are invalid.
Reported results do not include uncertainties.
In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory. Opinions and interpretations expressed herein are outside the scope of IAS Accreditation.

Issued in İstanbul
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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Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Material No.	Component	Material	Colour
A	Triangle Stick Glue	A1	Main	Plastic	Yellow
A	Triangle Stick Glue	A2	Printed sticker with glue	Paper	Yellow-black
A	Triangle Stick Glue	A3	Printed sticker with glue	Paper	Green-white-red-blue-light purple
A	Triangle Stick Glue	A4	Glue	-	White

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Phthalates¹

Test Method:

With reference to EN 14372:2004 - Analysis by GC-MS

Component

Cas No

A1

A4

Dibutyl Phthalate (DBP)

84-74-2

n.d.

n.d.

Benzylbutyl Phthalate (BBP)

85-68-7

n.d.

n.d.

Bis-(2-ethylhexyl) Phthalate (DEHP)

117-81-7

n.d.

n.d.

Total (DBP+BBP+DEHP)

n.d.

n.d.

Conclusion

Pass

Pass

Diisononyl Phthalate (DINP)

28553-12-0

n.d.

n.d.

Di-n-octyl Phthalate (DNOP)

117-84-0

n.d.

n.d.

Diisodecyl Phthalate (DIDP)

26761-40-0

n.d.

n.d.

Total (DINP+DNOP+DIDP)

n.d.

n.d.

Conclusion

Pass

Pass

Note(s):

n.d. = not detected

Detection Limit =

For DBP, BBP, DEHP, DIBP and DNOP: 0,003%, For DINP, DIDP: 0,01% (for individual compound)

Recommended Max. Limit=

0,1 % for Total (DBP+BBP+DEHP) For all childcare articles

0,1 % for Total (DINP+DNOP+DIDP) For childcare articles if it can be placed in the mouth

Remark:

Recommended Max. limit specified by entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).

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Primary Aromatic Amines

Test Method:	Sample preparation with reference EN 71-10:2005 followed by analysis with reference to EN 71-11:2005				
Component	Cas No	A2	A3	A4	
Benzidine	92-87-5	n.d.	n.d.	n.d.	
2-Naphthylamine	91-59-8	n.d.	n.d.	n.d.	
4-Chloroaniline	106-47-8	n.d.	n.d.	n.d.	
3,3'-Dichlorobenzidine	91-94-1	n.d.	n.d.	n.d.	
3,3'-Dimethoxybenzidine	119-90-4	n.d.	n.d.	n.d.	
3,3'-Dimethylbenzidine	119-93-7	n.d.	n.d.	n.d.	
o-Toluidine	95-53-4	n.d.	n.d.	n.d.	
2-Methoxyaniline (o-Anisidine)	90-04-0	n.d.	n.d.	n.d.	
Aniline	62-53-3	n.d.	n.d.	n.d.	
	Conclusion	Pass	Pass	Pass	
Note(s):	Requirement by the client= 5 mg/kg				

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European Directive 2009/48/EC-Migration of certain elements-Category III¹

Test Method:		With reference to EN71-3:2013+A1 : 2014. Analysis was performed by ICP-MS				
Test Item		A1	A2	A3	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Soluble Aluminium	(Al)	ND	ND	ND	50	70,000
Soluble Antimony	(Sb)	ND	ND	ND	10	560
Soluble Arsenic	(As)	ND	ND	ND	10	47
Soluble Barium	(Ba)	ND	ND	ND	50	18,750
Soluble Boron	(B)	ND	ND	ND	50	15,000
Soluble Cadmium	(Cd)	ND	ND	ND	5	17
Soluble Chromium	(Cr)	ND	ND	ND	0.15	--
Soluble Chromium (III) [#]	(Cr (III))	NC	NC	NC	1	460
Soluble Chromium (VI) [#]	(Cr (VI))	NC	NC	NC	0.18	0.2
Soluble Cobalt	(Co)	ND	ND	ND	10	130
Soluble Copper	(Cu)	ND	ND	ND	50	7,700
Soluble Lead		ND	ND	ND	10	160
Soluble Manganese	(Mn)	ND	ND	ND	50	15,000
Soluble Mercury	(Hg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	ND	ND	ND	10	930
Soluble Selenium	(Se)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	ND	101 mg/kg	116.6 mg/kg	50	56,000
Soluble Tin	(Sn)	ND	ND	ND	4.9	180,000
Soluble Organic Tin [^]	--	NC	NC	NC	--	12
Soluble Zinc	(Zn)	ND	ND	ND	50	46,000
Conclusion		Pass	Pass	Pass		--

- Note :
1. Mg/kg = milligram per kilogram
 2. ND = Not Detected
 3. 1% = 10000 mg/kg = 10000 ppm
 4. NC=Not conducted

- [#] 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.
- [^] 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.

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European Directive 2009/48/EC-Migration of certain elements-Category II¹

Test Method:		With reference to EN71-3:2013. Analysis of general elements was performed by ICP-MS		
Test Item		A4	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Soluble Aluminium	(Al)	ND	50	1,406
Soluble Antimony	(Sb)	ND	1	11.3
Soluble Arsenic	(As)	ND	0.5	0.9
Soluble Barium	(Ba)	ND	50	375
Soluble Boron	(B)	ND	50	300
Soluble Cadmium	(Cd)	ND	0.1	0.3
Soluble Chromium	(Cr)	0.043 mg/kg	0.005	--
Soluble Chromium (III)	(Cr (III))	ND	1	9.4
Soluble Chromium (VI)	(Cr (VI))	ND	0.005	0.005
Soluble Cobalt	(Co)	ND	0.5	2.6
Soluble Copper	(Cu)	ND	50	156
Soluble Lead	(Pb)	ND	0.5	3.4
Soluble Manganese	(Mn)	ND	50	300
Soluble Mercury	(Hg)	ND	0.5	1.9
Soluble Nickel	(Ni)	ND	10	18.8
Soluble Selenium	(Se)	ND	5	9.4
Soluble Strontium	(Sr)	1.6 mg/kg	50	1,125
Soluble Tin	(Sn)	ND	0.08	3,750
Soluble Organic Tin	--	ND	--	0.2
Soluble Zinc	(Zn)	237.7 mg/kg	50	938
Conclusion		Pass	--	--

- Note :
1. mg/kg = milligram per kilogram
 2. ND = Not Detected
 3. 1% = 10000 mg/kg = 10000 ppm
 4. NC=Not conducted

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Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)		MDL (mg/kg)
	A4		
Methyl tin (MeT)	ND		0.5
Di-n-propyl tin (DProT)	ND		0.5
Butyl tin (BuT)	ND		0.5
Dibutyl tin (DBT)	ND		0.5
Tributyl tin (TBT)	ND		0.5
n-Octyl tin (MOT)	ND		0.5
Tetrabutyl tin (TeBT)	ND		0.5
Diphenyl tin (DPhT)	ND		0.5
Di-n-octyl tin (DOT)	ND		0.5
Triphenyl tin (TPhT)	ND		0.5

Note : - mg/kg = milligram per kilogram
 - ND = Not Detected
 - 1% = 10000 mg/kg = 10000 ppm

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European Standard on Safety of Toys*

-Mechanical and Physical Properties¹

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS EN 71 PART 1:2011+A3:2014

CLAUSE	DESCRIPTION	RESULT
4	General requirements	A
4.1	Material (by visual assessment)	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
5.1	General Requirement Remark 1: The purple part attached to glue was removed after tension test,it is a small part.Due to the toy is for +3 age,it must be warned with clause 7,2	See Remark 1
7	Warnings, markings and instructions for use Remark 2: All information should be given in the national language of country where the toy is to be sold.	(See Remark 2)
7.1	General	Pass
7.2	Toys not intended for children under 36 months.	Pass

-Flammability of toys¹

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 2:2011+A1:2014

CLAUSE	DESCRIPTION	RESULT
4.1	General requirements	Pass

*Only applicable clauses were reported.

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Labeling requirement (Washing/Cleaning instruction, CE mark, importer / manufacturer name and address, product identification) according to the Directive 2009/48/EC – Safety of toys

Summary table

	Observation Result	Location
Washing/Cleaning instruction	N/A	N/A
CE mark	Present	Packaging
Importer's Name & Address	Present	Packaging
Manufacturer's Name & Address	Absent	-
Product ID	Present	Packaging

Not/ Note:

1) According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soaked. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned.

2) CE marking should be visible from outside the packaging and its height must be at least 5mm.

3) Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.

4) Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

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Test Results:

1. EN 71-3:2013 – Safety of toys – Part 3 – Migration of Certain Elements

Category II: Liquid or Sticky toy material

Method: With reference to EN71-3:2013. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV/VIS / LC-ICP-MS

Test Item(s)	Result(s)	MDL	Permissible Limit
Specimen No.	A4	--	--
Mass of trace amount (mg)	--	--	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	1	9.4
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	0.005	0.005

Specimen Description:

1. A4-white glue

- Note:
- mg/kg = milligram per kilogram
 - mg = milligram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm

****These test have been performed at SGS Hong kong as suncontracted.**

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