

## TEST REPORT

Job No./Report No: TR1666164 Date: 30 December 2019

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### KALISAN KAUÇUK

10007 SOKAK NO.26 AOSB-ÇİĞLİ-İZMİR İZMİR

TEL: 2323768485

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**To the attention of Mehmet Erden**

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

Sample No.	Sample Description
A	Balloon

Client's reference No. : TR 1666164  
 Article No. : 20192312  
 Age group applied in testing : 3+  
 Age group assessed as per age guideline : 3+  
 Manufacturer : Kalisan Kauçuk San. Ve Tic. Ltd. Şti.  
 Country of Origin : Turkey  
 Sample Receiving Date : 25 December 2019  
 Test Performing Period : 25 December 2019 ~ 30 December 2019

**Overall Conclusion : See Results**

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

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Test Parameters	Result
<b>Chemical tests</b>	<b>A1</b>
Flame Retardants (Screening)	M
Bisphenol A	*
Polycyclic Aromatic Hydrocarbons (PAHs) Content for REACH	M
Chlorinated Paraffins (SCCP)	M
Cadmium Content	M
N-Nitrosamines for Balloons & Teethers	M
N-Nitrosatable Substances for Balloons & Teethers	M
Phthalates	M
Migration of Certain Elements - Category III- Chromium VI Confirmation	M
Migration of Certain Elements - Category III	M

Test Parameters	Result
<b>Physical tests</b>	<b>A</b>
Colour Fastness to Perspiration	*
Colour Fastness to Saliva	*
Safety of Toys - Mechanical and Physical Properties	M
Safety of Toys - Flammability	M

Remarks	:	M = Meets client's requirement
		F = Exceed client's requirement
		I = Inconclusive
		* = No specified requirement
		# = See individual result: Result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component has been carried out as requested to determine the compliance of each component to the requirement

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 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.

Uğur Yılmaz  
Hardline & CPOCH Customer Services Team Leader

Bora Şirinbilek  
Section Manager




### Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Material No.	Component	Material	Colour
A	Balloon	A1	Balloon	Plastic	Rose gold

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### Polycyclic Aromatic Hydrocarbons (PAHs) Content for REACH<sup>1</sup>

Test Method: With reference to AfPS GS 2014:01 PAK - Analysis by GC-MS

Test Item	Cas Number	A1
Benzo[a]anthracene	56-55-3	n.d.
Benzo[b]fluoranthene	205-99-2	n.d.
Benzo[a]pyrene	50-32-8	n.d.
Benzo[e]pyrene	192-97-2	n.d.
Benzo[j]fluoranthene	205-82-3	n.d.
Benzo[k]fluoranthene	207-08-9	n.d.
Chrysene	218-01-9	n.d.
Dibenz [a, h]anthracene	53-70-3	n.d.
	<b>Conclusion</b>	<b>Pass</b>

#### Note(s):

n.d. = not detected

Detection Limit = 0.1 mg/kg (For individual compound)

**Recommended Max. Consumer product: 1 mg/kg (each)**

**Limit= Toy or childcare product: 0.5 mg/kg (each)**

**Textile or Footwear product: 1 mg/kg (each)**

**Remark:** Recommended Max. limit specified by Entry 50 of Regulation (EC) No 1272/2013 and Entry 72 of Regulation (EC) No 1513/2018 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

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### Phthalates<sup>1</sup>

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

<b>Component</b>	<b>Cas No</b>	<b>A1</b>
Dibutyl Phthalate (DBP)	84-74-2	n.d.
Benzylbutyl Phthalate (BBP)	85-68-7	n.d.
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	n.d.
Total (DBP+BBP+DEHP)		n.d.
<b>Conclusion</b>		<b>Pass</b>
Diisononyl Phthalate (DINP)	28553-12-0	n.d.
Di-n-octyl Phthalate (DNOP)	117-84-0	n.d.
Diisodecyl Phthalate (DIDP)	26761-40-0	n.d.
Total (DINP+DNOP+DIDP)		n.d.
<b>Conclusion</b>		<b>Pass</b>

Note(s): n.d. = not detected  
1% = 10000 mg/kg

Remark(s): 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).

Detection Limit = For DBP, BBP, DEHP and DNOP: 0,0030%, For DINP, DIDP: 0,0100% (for individual compound)

**Recommended Max. Limit(s)**= 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

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### Directive 2009/48/EC and its Amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725 - EN71-3: 2019 – Migration of certain elements<sup>1</sup>

#### Category III: Scrapped-off toy material

Method : With reference to EN71-3:2019. Analysis of general elements was performed by ICP OES. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV/VIS.

Test Item	Result (mg/kg)		Reporting Limit (mg/kg)	Permissible Limit (EN71-3 :2019) (mg/kg)
	<b>A1</b>			
Mass of trace amount (mg)	--		--	--
Soluble Aluminium (Al)	ND		50	70,000
Soluble Antimony (Sb)	ND		10	560
Soluble Arsenic (As)	ND		10	47
Soluble Barium (Ba)	ND		50	18,750
Soluble Boron (B)	ND		50	15,000
Soluble Cadmium (Cd)	ND		5	17
Soluble Chromium (Cr)	0.092		0.053	--
Soluble Chromium (Cr (III))	ND		5	460
Soluble Chromium (Cr (VI))	ND		0.053	0.053
Soluble Cobalt (Co)	ND		10	130
Soluble Copper (Cu)	ND		50	7,700
Soluble Lead (Pb)	ND		10	23
Soluble Manganese (Mn)	ND		50	15,000
Soluble Mercury (Hg)	ND		10	94
Soluble Nickel (Ni)	ND		10	930
Soluble Selenium (Se)	ND		10	460
Soluble Strontium (Sr)	ND		50	56,000
Soluble Tin (Sn)	ND		4.9	180,000
Soluble Organic Tin <sup>^</sup>	--		--	12
Soluble Zinc (Zn)	246		50	46,000
<b>Conclusion</b>	<b>PASS</b>		--	--

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

- ^ 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: 2019.

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### Bisphenol A Content

Test Method: SGS In House Test Method RSTS-CHEM-239-2 - Analysis by HPLC-MSMS

### Component

Bisphenol A

A1

n.d.

### **Conclusion**

**See Results**

Note(s): n.d. = not detected  
mg/kg = milligram per kilogram

Detection Limit = 0,01 mg/kg

**Recommended Max. Limit=** No Requirement

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### Chlorinated Paraffins (SCCP)\*

Test Method: With reference to ISO 18219:2015 - Analysis by GC-NC/MS

#### Component

**A1+B1**

Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)

n.d.

#### Conclusion

**Pass**

Note(s): n.d. = not detected  
1% = 10000 mg/kg

Remark(s): Recommended Max. limit specified by European Regulation (EC) No. 850/2004 and its amendment Regulation (EU) 2015/2030 – Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)  
\* = Detected substance(s) may come from one or more component(s) in composite testing. Individual testing of mixed components is highly recommended.

Detection Limit = 50 mg/kg

**Recommended Max. Limit= 1500 mg/kg**

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### Phosphate-based Flame Retardants

Test Method : SGS In House Method RSTS-CHEM-221-1. Analysis was performed by GC-MS

Phosphate-based Flame Retardants	CAS No.	Result (mg/kg)	Requirement
		A1	
Tris(2-chloroethyl) Phosphate (TCEP)	115-96-8	n.d.	5 mg/kg (each)
Tris(1,3-dichloro-2-propyl) Phosphate (TDCPP)	13674-87-8	n.d.	
Tris(1-chloro-2-propyl) Phosphate (TCPP)	13674-84-5	n.d.	
<b>Conclusion</b>		<b>Pass</b>	

Note: n.d. = Not detected  
N.A. = Not applicable  
\* = exceeds the limit  
Detection limit = 5 mg/kg (for individual compound)

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**Cadmium Content<sup>1</sup>**

Test Method: With reference to EN 1122:2001 Method B - Analysis by ICP-MS  
Operator Name: LEVENT DEMİR

Cadmium Content

**A1**  
n.d.

**Conclusion****Pass**

Note(s): mg/kg = milligram per kilogram  
n.d. = not detected

Remark(s): Recommended Max. Limit specified by Commission Regulation (EU) No 835/2012 amending Annex XVII of REACH Regulation (EC) No 1907/2006

Detection Limit = 5 mg/kg

**Recommended Max. Limit=** 100 mg/kg for plastics // 1000 mg/kg for paints/coatings

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### EN 71-12:2016 - N-Nitrosamines and N-nitrosatable substances

Test Method : With reference to EN 71-12:2016. Analysis was performed by LC-MS-MS.

Test Item(s)	Result(s) (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
<b>Specimen No.</b>	<b>A1</b>	--	--
N-nitrosodiethanolamine( NDELA)	ND	0.01	--
N-Nitrosodimethylamine (NDMA)	ND	0.01	--
N-Nitrosodiethylamine (NDEA)	ND	0.01	--
N-Nitrosodipropylamine (NDPA)	ND	0.01	--
N-nitrosodiisopropylamine (NDiPA)	ND	0.01	--
N-nitrosodibutylamine(NDBA)	ND	0.01	--
N-nitrosodiisobutylamine (NDiBA)	ND	0.01	--
N-nitrosodiisononylamine (NDiNA)	ND	0.01	--
N-nitrosomorpholine(NMOR)	ND	0.01	--
N-nitrosopiperidine (NPIP)	ND	0.01	--
N-nitrosodibenzylamine(NDBzA)	ND	0.01	--
N-nitroso-N-methyl-N-phenylamine (NMPPhA)	ND	0.01	--
N-nitroso-N-ethyl-N-phenylamine (NEPhA)	ND	0.01	--
Sum of N-Nitrosamines	ND	--	0.05
N-nitrosatable substances	ND	0.1	1
<b>Comment</b>	<b>PASS</b>	-	-

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

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<b>Colour Fastness to Saliva<sup>1</sup></b>		
Test Method: DIN 53160-1:2010		
Sample ID&Colour	T1	Requirement by the Client
(A) Rose Gold Main	5	No Requirement

Remarks: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

<b>Colour Fastness to Perspiration<sup>1</sup></b>		
Test Method: DIN 53160-2:2010		
(A)	Colour Change	Requirement by the Client
<u>Acid</u> Rose Gold Main st2	5	No Requirement

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## TEST REPORT

Job No./Report No:TR1666164 Date:30 December 2019

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This report details the clauses appropriate to this item. Those clauses not referred to were considered not applicable.

European Standard on Safety of Toys		
Mechanical and Physical Properties <sup>1</sup>		
Test Method:	BS EN 71-1: 2014 + A1:2018	
<b>A</b>		
CLAUSE	DESCRIPTION	RESULT
<b>4</b>	<b>GENERAL REQUIREMENTS</b>	
4.1	Material	Pass
4.7	Edges	Pass
4.8	Points and Metallic Wires	Pass
4.12	Balloons	Pass
<b>6</b>	<b>PACKAGING</b>	Pass
<b>7</b>	<b>WARNINGS, MARKINGS AND INSTRUCTIONS FOR USE</b>	
	Remark 1: All information should be given in the national language of country where the toy is to be sold. (Evaluated Language: Turkish)	See Remark 1
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass
7.3	Latex balloons	Pass

This report details the clauses appropriate to this item. Those clauses not referred to were considered not applicable.

Flammability of Toys <sup>1</sup>		
Test Method:	BS EN 71- 2: 2011 + A1:2014	
<b>A</b>		
CLAUSE	DESCRIPTION	RESULT
<b>4</b>	<b>GENERAL REQUIREMENTS</b>	
4.1	a) Cellulose Nitrate Control	Pass

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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	Not Applicable	-
CE mark	Present	Packaging
Importer's Name & Address	Absent	-
Manufacturer's Name & Address	Present	Packaging
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 soak washed. 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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\* \* \*

End of Test Report

\* \* \*

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