





TEST REPORT Job No./Report No TR606211 Date:24 June 2014 Page 1 of 19

CEREN KAĞIT VE KIRTASIYE SAN AŞ

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

TEL: 02124070888 **FAX**: 02124070666

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
Α	PLAY-KE009-Brush markers

Client's reference No. : TR 606211

Buyer : Hardline
Order No. : Not Provided
Division : Stationery
Model/Style No. : Not Provided
Article No. : PLAY-KE009

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 15 May 2014 Resubmit Date 20 June 2014

Test Performing Period : 15 May 2014 ~ 24 June 2014

Submitted Care Label Instructions : Not Provided

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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Job No./Report No TR606211

Date:24 June 2014 Page 2 of 19

Test Parameters	Result							
<u>Chemical tests</u>	A1 + A2 + A3	<u>A4 + A5</u> + A6	<u>A7 + A8</u> <u>+ A9</u>	<u>A10 +</u> <u>A11 +</u> <u>A12</u>	A13 + A14 + A15	A16 + A17 + A18		
Azo Dyes (Natural)	-	-	-	-	М	М		
Azo Dyes (Synthetic & Blend Fibers)	M	M	M	М	-	-		
Phthalates	-	-	-	-	M	М		
European Directive 2009/48/EC-Migration of certain elements-Category III	М	М	М	М	М	М		

Test Parameters		Result							
<u>Chemical tests</u>	A19 + A20 + A21	A22 + A23 + A24	A25 + A26 + A27	A28 + A29 + A30	A31 + A32 + A33	A34 + A35 + A36			
Azo Dyes (Natural)	M	M	M	M	M	M			
Phthalates	М	М	M	М	М	М			
European Directive 2009/48/EC-Migration of certain elements-Category III	М	М	М	М	М	М			

Test Parameters	Result
Chemical tests	<u>A37</u>
European Directive 2009/48/EC-Migration of	M
certain elements-Category III	M

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

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							
	The composite sampling method is based on the client's special request and is a modification from the testin standard.						
	Residual sample can be returned to client if requested.						

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CTSL-F-5.10-1NF/01.06.2013/Rev.2







Job No./Report No TR606211

Date:24 June 2014

Page 3 of 19

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

Eylem Yaldızlı Customer Services Supervisor Fatih Çakır RSTS Manager



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Job No./Report No TR606211

Date:24 June 2014 Page 4 of 19

Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Material No.	Component	Material	Colour	Fiber Type*
			Felt +ink	Felt +ink		
Α	Brush markers	A1	main		Navy	Type C
			Felt +ink	Felt +ink		
Α	Brush markers	A2	main		Purple	Type C
			Felt +ink	Felt +ink		
Α	Brush markers	A3	main		Light Blue	Type C
			Felt +ink	Felt +ink		
Α	Brush markers	A4	main		Dark Green	Type C
			Felt +ink	Felt +ink		
Α	Brush markers	A5	main		Light Green	Type C
			Felt +ink	Felt +ink		
Α	Brush markers	A6	main		Yellow	Type C
			Felt +ink	Felt +ink		
Α	Brush markers	A7	main		Beige	Type C
			Felt +ink	Felt +ink		
Α	Brush markers	A8	main		Orange	Type C
			Felt +ink	Felt +ink		
Α	Brush markers	A9	main		Pink	Type C
			Felt +ink	Felt +ink		
Α	Brush markers	A10	main		Red	Type C
			Felt +ink	Felt +ink		
Α	Brush markers	A11	main		Black	Type C
			Felt +ink	Felt +ink		
Α	Brush markers	A12	main		Brown	Type C
_			Plastic			
Α	Brush markers	A13	main	Plastic	Navy	N/A
_			Plastic			
Α	Brush markers	A14	main	Plastic	Purple	N/A
_			Plastic			
Α	Brush markers	A15	main	Plastic	Light Blue	N/A
			Plastic			
Α	Brush markers	A16	main	Plastic	Dark Green	N/A
_			Plastic			
Α	Brush markers	A17	main	Plastic	Light Green	N/A
			Plastic			
Α	Brush markers	A18	main	Plastic	Yellow	N/A
			Plastic			
Α	Brush markers	A19	main	Plastic	Beige	N/A
_			Plastic			
A	Brush markers	A20	main	Plastic	Orange	N/A

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CTSL-F-5.10-1NF/01.06.2013/Rev.2





Job No./Report No TR606211

Date:24 June 2014

Page 5 of 19

			Plastic			
Α	Brush markers	A21	main	Plastic	Pink	N/A
			Plastic			
Α	Brush markers	A22	main	Plastic	Red	N/A
			Plastic			
Α	Brush markers	A23	main	Plastic	Black	N/A
			Plastic			
Α	Brush markers	A24	main	Plastic	Brown	N/A
			Printed			
Α	Brush markers	A25	plastic main	Plastic	Navy	N/A
		400	Printed	DI II		N1/A
Α	Brush markers	A26	plastic main	Plastic	Purple	N/A
^	Dwydd maddon	407	Printed	Disatis	Limba Diva	NI/A
Α	Brush markers	A27	plastic main Printed	Plastic	Light Blue	N/A
Α	Brush markers	A28	plastic main	Plastic	Dark Green	N/A
^	Brush markers	AZO	Printed	1 lastic	Daik Green	IN/A
Α	Brush markers	A29	plastic main	Plastic	Light Green	N/A
7.	Brasii markers	7120	Printed	1 lastic	Light Groon	14/74
Α	Brush markers	A30	plastic main	Plastic	Yellow	N/A
	2.00	7.00	printed	1 1401.0		1471
Α	Brush markers	A31	plastic main	Plastic	Beige	N/A
			Printed			
Α	Brush markers	A32	plastic main	Plastic	Orange	N/A
			Printed			
Α	Brush markers	A33	plastic main	Plastic	Pink	N/A
			Printed			
Α	Brush markers	A34	plastic main	Plastic	Red	N/A
			Printed			
Α	Brush markers	A35	plastic main	Plastic	Black	N/A
			Printed			
Α	Brush markers	A36	plastic main	Plastic	Brown	N/A
Α	Brush markers	A37	Plastic main	Plastic	White	N/A

*This fiber type identification is for the selection of azo dye testing procedure(i.e. EN 14362-1/3:2012)

Note:

Type A=Textile contains natural fibers only and/or regenerated fibers exclude the group of acetate.

Type B=Textile contains polyester fibers only

Type C=Textile contains man-made fibers and/or man-made blended fibers(except polyester fibers)

N/A:Not Applicable

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Job No./Report No TR606211

Date:24 June 2014

Page 6 of 19

Azo Dyes (Natural) ¹

Test Method: With reference to BS EN 14362-1:2012 - Analysis by GC-MS/HPLC-DAD

		A13 + A14 +	<u>A16 +</u> <u>A17 +</u>	A19 + A20 +	A22 + A23 +	A25 + A26 +	A28 + A29 +
Component	Cas No	<u>A15</u>	A18	<u>A21</u>	A24	<u>A27</u>	<u>A30</u>
4-Aminobiphenyl	92-67-1	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Benzidine	92-87-5	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
4-Chlor-o-toluidine	95-69-2	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2-Naphthylamine	91-59-8	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
o-Aminoazotoluene	97-56-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
4-Chloroaniline	106-47-8	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
4,4'-Diaminodiphenylmethane	101-77-9	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3,3'-Dichlorobenzidine	91-94-1	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3,3'-Dimethoxybenzidine	119-90-4	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3,3'-Dimethylbenzidine	119-93-7	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
p-Cresidine	120-71-8	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
4,4'-Oxydianiline	101-80-4	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
4,4'-Thiodianiline	139-65-1	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
o-Toluidine	95-53-4	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
4-methyl-m-phenylenediamine / 2,4- Toluendiamine	95-80-7	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2,4,5-Trimethylaniline	137-17-7	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
4-aminoazobenzene	60-09-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
O-Anisidine	90-04-0 Conclusion	n.d. Pass	n.d. Pass	n.d. Pass	n.d. Pass	n.d. Pass	n.d. Pass

Note(s):

n.d. = not detected

Detection Limit = 5 mg/kg (for individual compound)

Requirement by the client= 30 mg/kg

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Job No./Report No TR606211

Date:24 June 2014

Page 7 of 19

Remark:

Max. limit specified by Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2002/61/EC).

Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.

In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

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Job No./Report No TR606211

Date:24 June 2014

Page 8 of 19

<u>Component</u>	Cas No	A31 + A32 + A33	A34 + A35 + A36
4-Aminobiphenyl	92-67-1	n.d.	n.d.
Benzidine	92-87-5	n.d.	n.d.
4-Chlor-o-toluidine	95-69-2	n.d.	n.d.
2-Naphthylamine	91-59-8	n.d.	n.d.
o-Aminoazotoluene	97-56-3	n.d.	n.d.
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	n.d.	n.d.
4-Chloroaniline	106-47-8	n.d.	n.d.
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	n.d.	n.d.
4,4'-Diaminodiphenylmethane	101-77-9	n.d.	n.d.
3,3'-Dichlorobenzidine	91-94-1	n.d.	n.d.
3,3'-Dimethoxybenzidine	119-90-4	n.d.	n.d.
3,3'-Dimethylbenzidine	119-93-7	n.d.	n.d.
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	n.d.	n.d.
p-Cresidine	120-71-8	n.d.	n.d.
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	n.d.	n.d.
4,4'-Oxydianiline	101-80-4	n.d.	n.d.
4.4'-Thiodianiline	139-65-1	n.d.	n.d.
o-Toluidine	95-53-4	n.d.	n.d.
4-methyl-m-phenylenediamine / 2,4- Toluendiamine	95-80-7	n.d.	n.d.
2,4,5-Trimethylaniline	137-17-7	n.d.	n.d.
4-aminoazobenzene	60-09-3	n.d.	n.d.
O-Anisidine	90-04-0	n.d.	n.d.
	Conclusion	Pass	Pass
Note(s):			
n.d. = not detected			
Detection Limit = 5 mg/kg (for individual cor	mpound)		
Requirement by the client= 30 mg/kg	•		

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Job No./Report No TR606211

Date:24 June 2014 Page 9 of 19

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In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

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SGS Supervise Gözetme Etüd Kontrol Servisleri A. Ş.

İş İstanbul Plaza Bağlar Mah. Osmanpaşa Cad. No:95 E Girişi Güneşli 34209

İstanbul – Turkey







Job No./Report No TR606211

Date:24 June 2014 Page 10 of 19

Test Method: With reference to BS EN 14362-1:2012 -	Analysis by GC-M				
		<u>A1 + A2 +</u>	<u>A4 + A5 +</u>	A7 + A8 +	A10 + A11 +
Component	<u>Cas No</u>	<u>A3</u>	<u>A6</u>	<u>A9</u>	<u>A12</u>
4-Aminobiphenyl	92-67-1	n.d.	n.d.	n.d.	n.d.
Benzidine	92-87-5	n.d.	n.d.	n.d.	n.d.
4-Chlor-o-toluidine	95-69-2	n.d.	n.d.	n.d.	n.d.
2-Naphthylamine	91-59-8	n.d.	n.d.	n.d.	n.d.
o-Aminoazotoluene	97-56-3	n.d.	n.d.	n.d.	n.d.
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	n.d.	n.d.	n.d.	n.d.
4-Chloroaniline	106-47-8	n.d.	n.d.	n.d.	n.d.
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	n.d.	n.d.	n.d.	n.d.
4,4'-Diaminodiphenylmethane	101-77-9	n.d.	n.d.	n.d.	n.d.
3,3'-Dichlorobenzidine	91-94-1	n.d.	n.d.	n.d.	n.d.
3,3'-Dimethoxybenzidine	119-90-4	n.d.	n.d.	n.d.	n.d.
3,3'-Dimethylbenzidine	119-93-7	n.d.	n.d.	n.d.	n.d.
4,4'-methylenedi-o-toluidine /		n.d.	n.d.	n.d.	n.d.
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0				
p-Cresidine	120-71-8	n.d.	n.d.	n.d.	n.d.
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	n.d.	n.d.	n.d.	n.d.
4,4'-Oxydianiline	101-80-4	n.d.	n.d.	n.d.	n.d.
4,4'-Thiodianiline	139-65-1	n.d.	n.d.	n.d.	n.d.
o-Toluidine	95-53-4	n.d.	n.d.	n.d.	n.d.
4-methyl-m-phenylenediamine / 2,4- Toluendiamine	95-80-7	n.d.	n.d.	n.d.	n.d.
2,4,5-Trimethylaniline	137-17-7	n.d.	n.d.	n.d.	n.d.
4-aminoazobenzene	60-09-3	n.d.	n.d.	n.d.	n.d.
O-Anisidine	90-04-0	n.d.	n.d.	n.d.	n.d.
	Conclusion	Pass	Pass	Pass	Pass
Note(s):					

<u> Note(s):</u>

n.d. = not detected

Detection Limit = 5 mg/kg (for individual compound)

Requirement by the client= 30 mg/kg

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Job No./Report No TR606211

Date:24 June 2014 Page 11 of 19

Remark:

Max. limit specified by Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2002/61/EC).

Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.

In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

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Job No./Report No TR606211

Date:24 June 2014 Page 12 of 19

Phthalates ¹			•	•	•		•
Test Method:	With reference	e to EN 1437	72:2004 - A	nalysis by C	GC-MS		
Component	Cas No	A13 + A14			A22 + A23	A25 + A26	
D"	04740	<u>+ A15</u>	<u>+ A18</u>	+ A21	+ A24	+ A27	<u>+ A30</u>
Dibutyl Phthalate (DBP)	84-74-2	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Benzylbutyl Phthalate (BBP)	85-68-7	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Total (DBP+BBP+DEHP)		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	Conclusion	Pass	Pass	Pass	Pass	Pass	Pass
Diisononyl Phthalate (DINP)	28553-12-0	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Di-n-octyl Phthalate (DNOP)	117-84-0	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Diisodecyl Phthalate (DIDP)	26761-40-0	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Total (DINP+DNOP+DIDP)		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	Conclusion	Pass	Pass	Pass	Pass	Pass	Pass
Note(s):							
n.d. =	not detected						
Detection Limit =							
Recommended Max. Limit=	For DBP, BBP, DEHP and DNOP: 0,003%, For DINP, DIDP: 0,01% (for individual compound) 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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Job No./Report No TR606211

Date:24 June 2014 Page 13 of 19

Phthalates ¹							
Test Method:	With reference to	With reference to EN 14372:2004 - Analysis by GC-MS					
Component	Cas No	A31 + A32 + A33	A34 + A35 + A36				
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 =	=						
	-						
Recommended Max. Limit=	For DBP, BBP, DEHP and DNOP: 0,003%, For DINP, DIDP: 0,01% (for individual compound) 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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Job No./Report No TR606211

Date:24 June 2014 Page 14 of 19

European Directive 2009/48	/EC-Migratio	on of certain	n elemen	ts-Categoi	rv III ¹			
Test Method:	, <u> </u>		nce to EN	N71-3:2013		s of gene	eral element	s was
Test Item		<u>A1 + A2 +</u> <u>A3</u>	A4 + A5 + A6	<u>A7 + A8 +</u> <u>A9</u>	A10 + A11 + A12	A13 + A14 + A15	Reportin g Limit (mg/kg)	Permissible Limit (mg/kg)
Soluble Aluminium	(AI)	ND	ND	ND	ND	ND	50	70,000
Soluble Antimony	(Sb)	ND	ND	ND	ND	ND	10	560
Soluble Arsenic	(As)	ND	ND	ND	ND	ND	10	47
Soluble Barium	(Ba)	ND	ND	ND	ND	ND	50	18,750
Soluble Boron	(B)	ND	ND	ND	ND	ND	50	15,000
Soluble Cadmium	(Cd)	ND	ND	ND	ND	ND	5	17
Soluble Chromium	(Cr)	ND	ND	ND	ND	ND	0.15	
Soluble Chromium (III)#	(Cr (III))	NC	NC	NC	NC	NC	1	460
Soluble Chromium (VI)#	(Cr (VI))	NC	NC	NC	NC	NC	0.18	0.2
Soluble Cobalt	(Co)	ND	ND	ND	ND	ND	10	130
Soluble Copper	(Cu)	ND	ND	ND	ND	ND	50	7,700
Soluble Lead	(Pb)	ND	ND	ND	ND	ND	10	160
Soluble Manganese	(Mn)	ND	ND	ND	ND	ND	50	15,000
Soluble Mercury	(Hg)	ND	ND	ND	ND	ND	10	94
Soluble Nickel	(Ni)	ND	ND	ND	ND	ND	10	930
Soluble Selenium	(Se)	ND	ND	ND	ND	ND	10	460
Soluble Strontium	(Sr)	ND	ND	ND	ND	ND	50	56,000
Soluble Tin	(Sn)	ND	ND	ND	ND	ND	4.9	180,000
Soluble Organic Tin [^]		NC	NC	NC	NC	NC		12
Soluble Zinc	(Zn)	ND	ND	ND	ND	ND	50	46,000
Conclusion		Pass	Pass	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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Job No./Report No TR606211

Date:24 June 2014 Page 15 of 19

European Directive 2009/48	B/EC-Migration	on of certain	elemen	ts-Catego	ry III ¹			
Test Method:		With referer performed b			3. Analys	is of gene	eral element	s was
Test Item		A19 + A20 + A21	<u>A22 +</u> <u>A23 +</u> <u>A24</u>	<u>A25 +</u> <u>A26 +</u> <u>A27</u>	A28 + A29 + A30	<u>A31 +</u> <u>A32 +</u> <u>A33</u>	Reportin g Limit (mg/kg)	Permissible Limit (mg/kg)
Soluble Aluminium	(AI)	ND	ND	ND	ND	ND	50	70,000
Soluble Antimony	(Sb)	ND	ND	ND	ND	ND	10	560
Soluble Arsenic	(As)	ND	ND	ND	ND	ND	10	47
Soluble Barium	(Ba)	ND	ND	ND	ND	ND	50	18,750
Soluble Boron	(B)	ND	ND	ND	ND	ND	50	15,000
Soluble Cadmium	(Cd)	ND	ND	ND	ND	ND	5	17
Soluble Chromium	(Cr)	ND	ND	ND	ND	ND	0.15	
Soluble Chromium (III)#	(Cr (III))	NC	NC	NC	NC	NC	1	460
Soluble Chromium (VI)#	(Cr (VI))	NC	NC	NC	NC	NC	0.18	0.2
Soluble Cobalt	(Co)	ND	ND	ND	ND	ND	10	130
Soluble Copper	(Cu)	ND	ND	ND	ND	ND	50	7,700
Soluble Lead	(Pb)	ND	ND	ND	ND	ND	10	160
Soluble Manganese	(Mn)	ND	ND	ND	ND	ND	50	15,000
Soluble Mercury	(Hg)	ND	ND	ND	ND	ND	10	94
Soluble Nickel	(Ni)	ND	ND	ND	ND	ND	10	930
Soluble Selenium	(Se)	ND	ND	ND	ND	ND	10	460
Soluble Strontium	(Sr)	ND	ND	ND	ND	ND	50	56,000
Soluble Tin	(Sn)	ND	ND	ND	ND	ND	4.9	180,000
Soluble Organic Tin [^]		NC	NC	NC	NC	NC		12
Soluble Zinc	(Zn)	ND	ND	ND	ND	ND	50	46,000
Conclusion		Pass	Pass	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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Job No./Report No TR606211

Date:24 June 2014 Page 16 of 19

European Directive 2009/48	3/EC-Migratio	on of certain	elemen	ıts-Categor	y III ¹	
Test Method:			nce to El	N71-3:2013	. Analysis of general element	ts was
Test Item		A16 + A17 + A18	<u>A34 +</u> <u>A35 +</u> <u>A36</u>	<u>A37</u>	Reportin g Limit (mg/kg)	Permissible Limit (mg/kg)
Soluble Aluminium	(AI)	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	(Pb)	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	ND	ND	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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Job No./Report No TR606211

Date:24 June 2014 Page 17 of 19

European Standard on Safety of Toys*

-Mechanical and Physical Properties¹

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS EN 71 PART 1:2011+A2:2013

CLAUSE	DESCRIPTION	RESULT
4	General requirements	Α
4.1	Material (by visual assessment)	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
5.1	General Requirements Remark 1:The back cover of the marker was removed at 40 N after tension test. It is a small part. Due to the toy is for +3 age it must be warned with 7.2 clause	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 Requirement	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

CLAUSE	DESCRIPTION	RESULT
4.1	General requirements	Pass

^{*}Only applicable clauses were reported.

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Job No./Report No TR606211

Date:24 June 2014 Page 18 of 19

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	NA	-
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 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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Job No./Report No TR606211

Date:24 June 2014 Page 19 of 19



End of Test Report

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