

Test Report	No. SHAHG1403676301	Date: 19 Mar 2014	Page 1 of 6
HUANGSHAN JIAJIA FLUOI	RESCENT MATERIAL CO.,LTD.		
NO.8 WEIYI ROAD SHEXIA	N CIRCULAR ECONOMY PARKS HU	ANGSHAN CITY CHINA	
			×9.
The following sample(s) was HZ(LZ/LQ)FLUORESCENT I	/were submitted and identified on beha PIGMENT	alf of the clients as :	
SGS Job No. :	SHHG1403006542SD - SH	G	
Style No. :	HZ(LZ/LQ)FLUORESCENT PIGME	NT	
Date of Sample Received :	12 Mar 2014	· ()·	
Testing Period :	12 Mar 2014 - 19 Mar 2014		
Test Requested :	Selected test(s) as requested by clie	ent.	
Test Method :	Please refer to next page(s).	No	
Test Results :	Please refer to next page(s). 🛛 🗙	/"	
Result Summary :		on	
Test Requested	e Co		Conclusion

Test Requested	Conclusion
EN71-3:2013 under European Directive 2009/48/EO-Migration of certain	See Results
elements(for dry, brittle, powder-like or pliable toy material)	
Formaldehyde	See Results
Azo Dyes	See Results
Polycyclic aromatic hydrocarbons (PAHs)	See Results

Signed for and on behalf of SGS-CSTC Ltd. Gerener Noung

Serena Wang Approved Signatory



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Test Report	No.	SHAHG140367630)1	Date: 1	9 Mar 2014	Page 2 of 6
Test Results :						
Test Part Descrip	<u>tion :</u>					
Specimen No . SN1	SGS Sample ID SHA14-036763.001	Description Orange powder				×0.
(2) ME (3) ND	ng/kg = 0.0001% DL = Method Detection L = Not Detected (< MD = Not Regulated				12/00	*
or pliable toy mat	ler European Directive : e rial) With reference to EN 71 Soluble Chromium (VI)	Part 3:2013, analy	vsis was	performed		<u>tle, powder-like</u>
Test Item(s) Soluble Chromium Soluble Lead (Pb) Soluble Antimony Soluble Arsenic (A Soluble Arsenic (A Soluble Barium (B Soluble Cadmium Soluble Chromium Soluble Mercury (I Soluble Mercury (I Soluble Boron (B) Soluble Boron (C) Soluble Cobalt (Cd Soluble Manganes Soluble Strontium Soluble Tin (Sn) Soluble Zinc (Zn) Soluble Copper (C)	(Sb) (Sb) (Cd) ((III) (Cr III) Hg) (Se) (Se) (Sr) Cu) (AI)	Limit 0.02 13.5 45 3.8 1500 1.3 37.5 7.5 37.5 1200 10.5 1200 4500 15000 3750 622.5 5625 75	Unit mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MDL 0.018 0.5 1 0.5 50 0.1 5 0.5 50 0.5 50 0.36 50 0.36 50 50 50 50 50 10	001 ND ND 2.5 ND ND ND ND ND ND ND ND ND ND ND ND ND	
Soluble Nickel (Ni) Soluble Organic T) in (expressed as Tin)*	75 0.9	mg/kg mg/kg	10 0.36	ND ND	

Notes :

(1) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does



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Test Report	No. SHAHG14036763	01	Date: 19 M	lar 2014 Page 3 of 6
not exceed the soluble	organic tin requirement a	as specified	in EN71-3:	2013
Farmaldahada				
Formaldehyde				
Test Method : In-house method	(SHTC-CHEM-SOP-315-	-T),analysis	was perforn	ned by UV-Vis.
<u>Test Item(s)</u>		<u>Unit</u>	<u>MDL</u> <u>(</u>	<u>201</u>
Formaldehyde		g/kg	0.02	
				\mathcal{C}
Azo Dyes			. (
Test Method : According to Ref.	EN 14362-1:2012- Analy	sis was co	nducted with	GC-MS/HPLC-DAD.
			X	
<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
4-Aminobiphenyl	92-67-1	mg/kg	5	ND
Benzidine	92-87-5	mg/kg	5	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND
2-naphthylamine	91-59-8	mg/kg	5	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND
5-nitro-o-toluidine /	99-55-8	mg/kg	5	ND
2-Amino-4-nitrotoluene 4-chloroaniline	106-47-8	mg/kg	5	ND
4-methoxy-m-phenylenediamin	615-05-4		5	ND
e / 2,4-Diaminoanisole	015-05+4	mg/kg	5	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND
3.3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND
3,3'-Dimethyl-4,4'-diaminodiph	838-88-0	mg/kg	5	ND
enylmethane /				
4,4'-methylenedi-o-toluidine				
p-cresidine	120-71-8	mg/kg	5	ND
4,4'-methylene-bis-	101-14-4	mg/kg	5	ND
(2-chloroaniline) 4,4'-oxydianiline	101-80-4	ma/ka	5	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND
o-toluidine	95-53-4	mg/kg mg/kg	5 5	ND
4-methyl-m-phenylenediamine	95-80-7	mg/kg mg/kg		ND
/ 2,4-Toluylendiamine	30-00-1	туку	5	
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND



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Test Report	No. SHAHG1403	676301	Date: 19	Mar 2014	Page 4 of 6
<u>Test Item(s)</u> 4-aminoazobenzene	<u>CAS NO.</u> 60-09-3	<u>Unit</u> mg/kg	MDL 5	<u>001</u> ND	
O-Anisidine	90-04-0	mg/kg	5	ND	
Conclusion				**	_

Notes :

(1) Test result for 4-aminoazobenzene (CAS no.: 60-09-3) is considered as "not detected" (i.e. <5mg/kg) since both aniline and/or 1,4-phenylenediamine is not found (i.e. <5mg/kg) by mentioned test method (2) **= For textiles no relevant amine exceeding 30 ppm (mg/kg) is required, the test method is only applicable for textile and the result is only for client's information.

(3) 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.

(4) 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.

(5) 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.

Polycyclic aromatic hydrocarbons (PAHs)

Test Method : With reference to ZEK 01.4-08 of German ZLS and its amendments, analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Sum of 18 PAHs	mg/kg	-	ND
Naphthalene(NAP)	mg/kg	0.2	ND
Acenaphthylene(ANY)	mg/kg	0.2	ND
Acenaphthene(ANA)	mg/kg	0.2	ND
Fluorene(FLU)	mg/kg	0.2	ND
Phenanthrene(PHE)	mg/kg	0.2	ND
Anthracene(ANT)	mg/kg	0.2	ND
Fluoranthene(FLT)	mg/kg	0.2	ND
Pyrene(PYR)	mg/kg	0.2	ND
Benzo(a)anthracene(BaA)	mg/kg	0.2	ND
Chrysene(CHR)	mg/kg	0.2	ND
Benzo(b)fluoranthene(BbF) and	mg/kg	0.4	ND
Benzo(j)fluoranthene(BjF)			
Benzo(k)fluoranthene(BkF)	mg/kg	0.2	ND



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<u>Test Item(s)</u>	<u>Unit</u>	MDL	<u>001</u>	
Benzo(a)pyrene(BaP)	mg/kg	0.2	ND	
Benzo(e)pyrene(BeP)	mg/kg	0.2	ND	
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.2	ND	_
Dibenzo(a,h)anthracene(DBA)	mg/kg	0.2	ND	<i>.ò</i> .
Benzo(g,h,i)perylene(BPE)	mg/kg	0.2	ND	

ZEK 01.4-08: Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Material indented to be put in the mouth or material for toys with normal skin contact for children aged <36 months	Materials those are not included in Category 1, with predictable contact with the skin longer than 30 s. (long-term skin contact).	Materials those are not included in Category 1 or 2, with predictable skin contact up to 30 s (short-term skin contact).
Benzo(a)pyrene (mg/kg)	<0.2**	1	20
Sum of 18 PAH (mg/kg)*	<0.2**	10	200

Notes:

- * = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs
- ** = In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material which is indented to be put in the mouth by additional specific migration tests of PAH components based on DIN EN 1186ff/EN13130 and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

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Test Report



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