

Test Report

No. SHAHG1121060704

Date: 13 Jan 2015

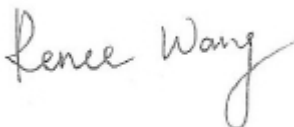
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Huangshan fluorescent Technology Co., Ltd.
NO.169 YONGJIA AVENUE,HUIZHOU DISTRICT,HUANGSHAN CITY,ANHUI PRO.CHINA

The foLLowing sampLe(s) was/were submitted and identified on behaLf of the cLients as :
ST(LZ,LQ)FLUORESCENT PIGMENT

SGS Job No. : SHHG1112042087SD - SH
Date of SampLe Received : 28 Dec 2014
Testing Period : 28 Dec 2014 - 05 Jan 2015
Test Requested : SeLected test(s) as requested by cLient.
Test Method : PLease refer to next page(s).
Test ResuLts : PLease refer to next page(s).
ConclUsion : When tested as specified, the specified materiaL of the submitted sampLe complY with the stated requirements of the European Standard EN 71 Part3:1994 + A1:2000+ AC: 2002.

Signed for and on behaLf of
SGS-CSTC Ltd.



Wang Lini, Renee
Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA11-210607.001	Orange powder

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

EN 71 Part3:1994 (including amendment A1:2000/AC:2002) - Migration of Certain Elements

Test Method : With reference to EN 71 Part 3:1994 + A1:2000 + AC: 2002, analysis was performed by ICP-OES

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
SoLubLe Lead (Pb)	90	mg/kg	5	ND
SoLubLe Antimony (Sb)	60	mg/kg	5	ND
SoLubLe Arsenic (As)	25	mg/kg	5	ND
SoLubLe Barium (Ba)	1,000	mg/kg	10	ND
SoLubLe Cadmium (Cd)	75	mg/kg	5	ND
SoLubLe Chromium (Cr)	60	mg/kg	5	ND
SoLubLe Mercury (Hg)	60	mg/kg	5	ND
SoLubLe Selenium (Se)	500	mg/kg	10	ND

Notes :

- (1) Results shown are of the adjusted analytical results.

Polymeric Aromatic Hydrocarbons (PAH)

Test Method : With reference to ZEK 01.2-08 of German ZLS and its amendments, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Sum of 16 PAH	mg/kg	-	ND
Naphthalene(NAP)	mg/kg	0.2	ND
Acenaphthylene(ANY)	mg/kg	0.2	ND

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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
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)	mg/kg	0.2	ND
Benzo(k)fLuoranthene(BkF)	mg/kg	0.2	ND
Benzo(a)pyrene(BaP)	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
Benzo(g,h,i)perylene(BPE)	mg/kg	0.2	ND

ZEK 01.2-08: 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 which are not included in Category 1, with predictable contact with the skin longer than 30 s. (Long-term skin contact)	Materials which 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)	<MDL (<0.2)***	1	20
Sum of 16 PAH(US EPA) (mg/kg)**	<MDL (<0.2)***	10	200

Remark : ** = OnLy PAH substances >0.2 mg/kg are taken into account whiLe caLcuLating the sum of PAH
 *** = 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 and §64 LFGB 80.30-1. The conclusion of the migration test resuLts must be made based on food Law criteria.

Formaldehyde

Test Method : In-house method (SHTC-CHEM-SOP-315-T),analysis was performed by UV-Vis.

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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Formaldehyde	g/kg	0.02	ND

Azo Dyes

Test Method : With reference to EN 14362-1:2003 - Analysis was conducted with GC-MS/HPLC-DAD.

<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-aminoazobenzene	97-56-3	mg/kg	5	ND
5-nitro-o-toluidine /	99-55-8	mg/kg	5	ND
2-Amino-4-nitrobenzene				
4-chloroaniline	106-47-8	mg/kg	5	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminobenzene	615-05-4	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'-diaminodiphenylmethane /	838-88-0	mg/kg	5	ND
4,4'-methylenedio-toluidine				
p-cresidine	120-71-8	mg/kg	5	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND
4,4'-oxydianiline	101-80-4	mg/kg	5	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND
o-toluidine	95-53-4	mg/kg	5	ND
4-methyl-m-phenylenediamine / 2,4-Toluidinediamine	95-80-7	mg/kg	5	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND
O-Anisidine	90-04-0	mg/kg	5	ND
Conclusion				**

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Notes :

- (1) ** =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.
- (2) 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

Remark: The test results are taken from report SHAHG1121060701, Date:2012/01/05.

Sample photo:



SGS authenticate the photo on original report only

***** End of Report *****

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