

TEST REPORT

APPLICANT : Xindao B.V.

ADDRESS : P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands

SAMPLE DESCRIPTION : 19.5" Droplet pocket umbrella

ITEM NO. : P850.01

COUNTRY OF ORIGIN : China

COUNTRY OF DESTINATION : Europe

SAMPLE RECEIVED DATE : 07-Jan-2015

FURTHER INFORMATION DATE : 14-Jan-2015

TURN AROUND TIME : 14-Jan-2015 to 16-Jan-2015, 3 Working Days

The following test item(s) was/were performed on selected sample(s) and/or component(s) appointed by applicant.

TEST REQUESTED	RESULT
- Total Cadmium Content	Pass
- Banned AZO Dyes	Pass
- PAH Limit according to German GS Specification document: <i>Prüfung und Bewertung von Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK) bei der Zuerkennung des GS-Zeichens (Stand: 4. August 2014)</i>	Pass
- Entry 50 of Regulation (EU) No 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006 – PAHs Content	Pass

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***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
Eurofins Product Testing Service (Shanghai) Co., Ltd



Chris Zhang
Technical Manager

Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to sh.info@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd.

SAMPLE PHOTO**EFSH15010280-CG-01**

TO BE CONTINUED

COMPONENT LIST

Component No.	Component
1	White plastic
2	Black plastic
3	Blue plastic
4	Transparent plastic
5	Light yellow plastic
6	Black fabric

TO BE CONTINUED

TEST RESULT

Total Cadmium Content

Test method : With reference to EN 1122: 2001, Method B, analysis was performed by ICP-OES.

Limit : Commission Regulation (EU) No 835/2012 amending Annex XVII of REACH Regulation (EC) No 1907/2006-Cadmium (Cd).

Tested Item(s)	Test Result (%)		M.D.L.(%)	Limit(%)
	1+2+3	4+5		
Total Cadmium (Cd)	ND	ND	0.0005	0.01

Note:

M.D.L. = method detection limit

ND = not detected, less than M.D.L.

Remark:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

TO BE CONTINUED

TEST RESULT

Banned AZO Dyes

Test specification : Banned AZO-dyes (REACH Regulation (EC) No 1907/2006 (Annex XVII, No. 43), previously restricted under Directive 2002/61/EC)

Test method : EN 14362-1:2012
10-60 mg/kg quantitative, >60 mg/kg semi quantitative
Determination by Gas Chromatography-Mass Selective Detection (GC-MSD) and Confirmation by High Performance Liquid Chromatographic Analysis (HPLC/DAD)

Requirement : 30 mg/kg for single material

Forbidden Amines	CAS No.	Unit	Result
			6
Conclusion	--	--	Pass
4-Aminobiphenyl	92-67-1	mg/kg	ND
4,4'-Benzidine	92-87-5	mg/kg	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	ND
2-Naphthylamine	91-59-8	mg/kg	ND
o-Aminoazotoluene ¹	97-56-3	mg/kg	ND
5-Nitro-o-toluidine ²	99-55-8	mg/kg	ND
4-Chloroaniline	106-47-8	mg/kg	ND
4-Methoxy-1,3-phenylenediamine	615-05-4	mg/kg	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	ND
4,4'-Methylene bis(o-chloroaniline)	101-14-4	mg/kg	ND
4,4'-Oxydianiline	101-80-4	mg/kg	ND
4,4'-Thiodianiline	139-65-1	mg/kg	ND
o-Tolidine	95-53-4	mg/kg	ND
2,4-Diaminotoluene	95-80-7	mg/kg	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	ND
o-Anisidine	90-04-0	mg/kg	ND
4-Amino-azobenzene ³	60-09-3	mg/kg	ND

Remarks:

ND : Not detected, less than 10 mg/kg(max.)

mg/kg = milligram per kilogram

Note 1 : o-Aminoazotoluene(CAS No.:97-56-3) is been reduced to o-Toluidine(CAS No.:95-53-4) and quantified by this.

Note 2 : 5-Nitro-o-toluidine(CAS No.:99-55-8) is been reduced to 4-Methyl-m-phenylene Diamine (CAS No.:95-80-7) and quantified by this.

Note 3 : 4-Amino-azobenzene(CAS No.:60-09-3) is detected as aniline. Need further confirmation when detected.

TO BE CONTINUED

TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

- Test specification : 18 Polycyclic Aromatic Hydrocarbons in polymers (PAHs) according to German GS Specification document: *Prüfung und Bewertung von Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK) bei der Zuerkennung des GS-Zeichens (Stand: 4. August 2014)*.
- Test method : Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to GS PAHs requirement
- Requirement : GS PAHs requirement: Limits for PAHs in Toys under Directive 2009/48/EU and Other products under ProdSG, see table 1 on next page(s):

Parameter	CAS No.	Unit	Result	
			1+2+3	4+5
Benzo(a)pyrene	50-32-8	mg/kg	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND	ND
Benzo(a)anthracene	56-55-3	mg/kg	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	ND	ND
Chrysene	218-01-9	mg/kg	ND	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND	ND
Benzo(ghi)perylene	191-24-2	mg/kg	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND	ND
Sum of Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	ND	ND
Naphthalene	91-20-3	mg/kg	ND	ND
Sum 18 PAHs	-	mg/kg	ND	ND
Summary to above mentioned requirement:	For Category 2 (Other products under ProdSG)		Pass	Pass

Note:

mg/kg = milligram per kilogram

ND = not detected, less than 0.2 mg/kg

Remark:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

TO BE CONTINUED

TEST RESULT

Table 1

GS PAHs requirement: Limits for PAHs in Toys under Directive 2009/48/EU and Other products under ProdSG.

Parameter	Unit	Category 1 Materials indented to be put in the mouth, or materials of toys for children with foreseeable skin contact for longer than 30 seconds (long-term skin contact)	Category 2 Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or short-term repetitive contact with the human skin		Category 3 Materials not covered by category 1 or 2 with foreseeable skin contact up to 30 seconds (short term skin contact)	
		-	Toys under Directive 2009/48/EU	Other products under ProdSG	Toys under Directive 2009/48/EU	Other products under ProdSG
Benzo(a)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(e)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(a)anthracene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(b)fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(j)fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(k)fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo(a,h)anthracene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(ghi)perylene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Indeno(1,2,3-cd)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene Anthracene, Fluoranthene	mg/kg	<1 Sum*	<5 Sum*	<10 Sum*	<20 Sum*	<50 Sum*
Naphthalene	mg/kg	<1	<2		<10	
Sum* 18 PAHs	mg/kg	<1	<5	<10	<20	<50

* = Only those PAH components are taken into account, which have been specified in the material over the 0.2 mg/kg.

TO BE CONTINUED

TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Requested : To determine the Polycyclic Aromatic Hydrocarbons (PAHs) content of the submitted sample in accordance with Entry 50 of Regulation (EU) No 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method : With reference to ISO 18287:2006, Analysis was performed by GC/MS.

Test Item(s)	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	1+2+3	4+5		
Benzo(a)anthracene	ND	ND	0.2	1
Chrysene	ND	ND	0.2	1
Benzo(b)fluoranthene	ND	ND	0.2	1
Benzo(j)fluoranthene				
Benzo(k)fluoranthene	ND	ND	0.2	1
Benzo(a)pyrene	ND	ND	0.2	1
Dibenzo(a,h)anthracene	ND	ND	0.2	1
Benzo(e)pyrene	ND	ND	0.2	1

Note:

M.D.L. = method detection limit

ND = Not detected, less than detection limit

Remark:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

*** END OF THE REPORT ***