

Test Report

Number: SZHH01383985

Applicant: LAETZ FAETZ GMBH
ALTE ZIMMEREI 8, 73269 HOCHDORF,
GERMANY

Date: Jul 26, 2019

Attn: Silke

Sample Description:

Thirteen (13) pieces of submitted sample said to be :
Item Name : **Soother Strap.**
Buyer : Audi Sport GmbH, 74172 Neckarsulm.
Country of Origin : China.
Date Sample Received : Jul 19, 2019.
Testing Period : Jul 19, 2019~Jul 26, 2019.

SZHH01383985



Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Conclusion:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Tested component of submitted samples	Resistance to artificial saliva DIN 53160-1:2010.	See test conducted
	Resistance to artificial sweat DIN 53160-2:2010.	See test conducted
Tested components of submitted sample(s)	Cadmium content requirement in REACH regulation Annex XVII Item 23 (EC) No 1907/2006 and amendment No. 552/2009, 494/2011, 835/2012 and 2016/217	Pass
	European Standard on Child Use and Care Articles - Soother holder – Safety requirement –EN 12586:2007+A1:2011 on migration of certain elements	Pass
	<u>Test Item</u> Bisphenol-A content requirement in Annex XVII Item 66 of the REACH Regulation (EC) No. 1907/2006 (effective from 02 January 2020)	Pass
	<u>Standard</u> Phenol migration requirements in Appendix C of Annex II to Directive 2009/48/EC & amendment Directive EU 2017/774 (effect from Nov 4, 2018)	Pass
	Phthalates content requirement in Annex XVII Items	Pass



Page 1 of 8



Test Report

Number: SZHH01383985

51 & 52 of the REACH Regulation (EC) No.
1907/2006 & Amendment No. 552/2009

Phthalates content requirement in Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & (EU) 2018/2005. [(EU) 2018/2005 is applicable to products including toys and childcare articles placed on the market after 7 July 2020] **Pass**

Azocolourants Content Requirement In Annex XVII Item 43 Of The REACH Regulation (EC) NO. 1907/2006 & Amendment No. 552/2009 and 126/2013 (Formerly Known As Directive 2002/61/EC) **Pass**

AfPS GS 2014:01 PAK (PAH) on Polycyclic Aromatic Hydrocarbons (PAHs) Content **Pass**

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.



Ben N.L. Lin
General Manager



Page 2 of 8



Test Report

Number: SZHH01383985

Tests Conducted

1 Resistance to Artificial Saliva

As per the standard for determination of the colour release of articles of daily use DIN 53160-1:2010.

Result:

Tested Component	Colour Staining on Test Filter Paper	Grey Scale Grading
White tape with red/black printings	NIL	5

Remark: The grey scale used in colour release assessment is according to ISO-105 A03.
NIL = No colour staining was observed

2 Resistance to Artificial Sweat

As per the standard for determination of the colour release of articles of daily use DIN 53160-2:2010.

Result:

Tested Component	Colour Staining on Test Filter Paper	Grey Scale Rating
White tape with red/black printings	NIL	5

Remark: The grey scale used in colour release assessment is according to ISO-105 A03.
NIL = No colour staining was observed

3 Cadmium (Cd) Content

With reference to test method IEC 62321-5:2013, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (%)	Reporting Limit (%)
	Tested Component	
	(1)	
Cadmium (Cd)	ND	0.0005

Limit:

Category	Limit (%)
Wet paint	0.01
Surface coating	0.1
Plastic	0.01
Metal parts of jewelry & hair accessories	0.01

ND = Not detected (less than reporting limit)

Tested Component(s): See component list in the last section of this report



Test Report

Number: SZHH01383985

Tests Conducted

4 Migration of Certain Elements Analysis

As per European Standard on Child Use and Care Articles - Soother holder - Safety requirement EN12586: 2007+A1: 2011, acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (mg/kg)		Reporting limit (mg/kg)	Limit (mg/kg)
	Tested component			
	(2)	(3)		
Sol. Barium (Ba)	ND	9	5	1000
Sol. Lead (Pb)	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	5	75
Sol. Antimony (Sb)	8	ND	5	60
Sol. Selenium (Se)	ND	ND	5	500
Sol. Chromium (Cr)	ND	ND	5	60
Sol. Mercury (Hg)	ND	ND	5	60
Sol. Arsenic (As)	ND	ND	2.5	25

Element	Result (mg/kg)	Reporting limit (mg/kg)	Limit (mg/kg)
	Tested component		
	(1)		
Sol. Barium (Ba)	ND	5	1000
Sol. Lead (Pb)	ND	5	90
Sol. Cadmium (Cd)	ND	5	75
Sol. Antimony (Sb)	ND	5	60
Sol. Selenium (Se)	ND	5	500
Sol. Chromium (Cr)	ND	5	60
Sol. Mercury (Hg)	ND	5	60
Sol. Arsenic (As)	ND	2.5	25

Sol. = Soluble

ND = Not detected (less than reporting limit)

Tested Components: See component list in the last section of this report

5 Bisphenol-A Content

By solvent extraction and followed by Liquid Chromatographic / Tandem Mass Spectrometer (LC/MS/MS) analysis.

Test item	CAS No	Result (mg/kg)	Reporting limit (%)	Limit (%)
		Tested component		
		(1)		
Bisphenol-A	80-05-7	ND	0.0001	0.02

ND = Not detected(less than reporting limit)

Tested Component: See component list in the last section of this report



Test Report

Number: SZHH01383985

Tests Conducted

6 Phenol Migration in Polymeric Material

As per EN 71-10: 2005 and EN 71-11: 2005.

Test item	Result (mg/L)	Reporting limit (mg/L)	Limit (mg/L)
	Tested component		
	(1)		
Phenol	ND	1	5

ND = Not detected

Tested Component(s): See component list in the last section of this report

7 Phthalate Content

With reference to International Standard ISO 8124-6:2018, and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS).

Test Item	CAS No.	Result (%) θ	Reporting Limit (%)	Limit (%)
		Tested component		
		(1),(2)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.005	--
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.005	--
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.005	---
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.005	
Sum of DBP, DEHP, BBP and DIBP	--	ND	--	0.1

The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 for phthalate content in articles (formerly known as Directive 2005/84/EC).

For toys and childcare articles, combination of DIBP to current limit (sum of DBP, DEHP and BBP) was quoted from Commission Regulation (EU) 2018/2005 effective from 7 July 2020.

For non-toys and non-childcare articles, the limit (sum of DBP, DEHP, BBP and DIBP) was quoted from Commission Regulation (EU) 2018/2005 effective from 7 July 2020.

ND = Not detected (less than reporting limit)

θ = Single result for each test component/group

Tested Component(s): See component list in the last section of this report



Test Report

Number: SZHH01383985

Tests Conducted

8 Detection Of Amines Derived From Azocolourants and Azodyes

By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis.

Test Method : EN 14362-1 : 2012 for Textile Material
EN ISO 17234-1: 2010 for Leather Material
EN 14362-3 : 2012 & EN ISO 17234-2: 2011 for 4-Aminoazobenzene

Test item		Cas No.	Result (mg/kg)
			(2)
1	4-Aminodiphenyl	92-67-1	ND
2	Benzidine	92-87-5	ND
3	4-Chloro-o-Toluidine	95-69-2	ND
4	2-Naphthylamine	91-59-8	ND
5	o-Aminoazotoluene	97-56-3	ND
6	2-Amino-4-Nitrotoluene	99-55-8	ND
7	p-Chloroaniline	106-47-8	ND
8	2,4-Diaminoaniso	615-05-4	ND
9	4,4'-Diaminodiphenylmethane	101-77-9	ND
10	3,3'-Dichlorobenzidine	91-94-1	ND
11	3,3'-Dimethoxybenzidine	119-90-4	ND
12	3,3'-Dimethylbenzidine	119-93-7	ND
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	ND
14	p-Cresidine	120-71-8	ND
15	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	ND
16	4,4'-Oxydianiline	101-80-4	ND
17	4,4'-Thiodianiline	139-65-1	ND
18	o-Toluidine	95-53-4	ND
19	2,4-Toluylenediamine	95-80-7	ND
20	2,4,5-Trimethylaniline	137-17-7	ND
21	o-Anisidine	90-04-0	ND
22	4-Aminoazobenzene	60-09-3	ND
23	2,4-Xylidine	95-68-1	ND
24	2,6-Xylidine	87-62-7	ND

ND = Not detected (less than detection limit)

θ = Single result for each test component/group

Detection limit = 5mg/kg

Requirement = 30mg/kg

According to the official method EN 14362-1:2012 and EN ISO 17234-1:2010, if each amine is found < 30 mg/kg, azo colorants which can release the listed aromatic amines were not detected.

According to the official method EN 14362-3:2012 and EN ISO 17234-2:2011, if 4-aminoazobenzene is found < 30 mg/kg, azo colorants which can release 4-aminoazobenzene was not detected.

The results of additional amines (23-24) are reported for reference only.

Tested component(s): See component list in the last section of this report



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Number: SZHH01383985

Tests Conducted

9 Polycyclic Aromatic Hydrocarbons (PAHs) Content

With reference to AfPS GS 2014:01 PAK (PAH), by solvent extraction and determined by Gas Chromatography - Mass Spectrometer (GC/MS).

(I) Test Result

Non-Toys:

Compound	CAS No.	Result (mg/kg)	Limit (mg/kg)		
		(1)	Category 1	Category 2	Category 3
Acenaphthylene	208-96-8	ND	--	--	--
Acenaphthene	83-32-9	ND	--	--	--
Fluorene	86-73-7	ND	--	--	--
Phenanthrene	85-01-8	ND	--	--	--
Anthracene	120-12-7	ND	--	--	--
Fluoranthene	206-44-0	ND	--	--	--
Pyrene	129-00-0	ND	--	--	--
Sum (7 PAHs):	--	ND	1	10	50
Naphthalene	91-20-3	ND	1	2	10
Benzo(a)Anthracene	56-55-3	ND	0.2	0.5	1
Chrysene	218-01-9	ND	0.2	0.5	1
Indeno(1,2,3-cd)Pyrene	193-39-5	ND	0.2	0.5	1
Benzo(b)Fluoranthene	205-99-2	ND	0.2	0.5	1
Benzo(k)Fluoranthene	207-08-9	ND	0.2	0.5	1
Benzo(a)Pyrene	50-32-8	ND	0.2	0.5	1
Dibenzo(a,h)Anthracene	53-70-3	ND	0.2	0.5	1
Benzo(g,h,i)Perylene	191-24-2	ND	0.2	0.5	1
Benzo(e)Pyrene	192-97-2	ND	0.2	0.5	1
Benzo(j)Fluoranthene	205-82-3	ND	0.2	0.5	1
Sum (18 PAHs):	--	ND	1	10	50
Classification of samples: Category	--	3	--	--	--
Conclusion	--	P	--	--	--

ND = Not detected (less than reporting limit)

Reporting limit = 0.2 mg/kg

P = Pass

Tested Component(s): See component list in the last section of this report



Test Report

Number: SZHH01383985

Tests Conducted

(II) Categories for Products

Parameter	Product
Category 1	Materials intended to be put in the mouth, or materials of toys with intended long-term skin contact (longer than 30s)
Category 2	Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or repeated short-term skin contact
Category 3	Materials which not covered by category 1 or 2 with foreseeable skin contact up to 30 seconds (short term skin contact)

Component list:

- (1) White plastic (clip).
- (2) White fabric with printings (red, black, dark orange)(body).
- (3) White fabric (rope).

End of report

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Page 8 of 8

