



BUREAU
VERITAS

CONSUMER PRODUCTS SERVICES DIVISION

Technical Report: (6611)298-0902
Date Received: OCT.26, 2011
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DEC.16, 2011
Page 1 of 6

SALEEM
XINDAO (SHANGHAI) CO., LTD
15TH FLOOR, LZY TOWER, NO. 4711 JIAO TONG ROAD

Sample Description:	P820.221 – NECK CUSHION, EYE-MASKER, EARPLUGS (P820.012; P820.259 REFER)		
Manufacturer:	/	PO No.:	/
Buyer:	/	Style:	/
Country of Origin:	/	Country of	EU
		Destination:	
Color:	/	SKU:	/
Protocol No.:	/	Previous Report No.:	/

EXECUTIVE SUMMARY:

TEST REQUESTED	CONCLUSION	Remark
1) Pentachlorophenol (PCP) Content – German Chemicals Act (Prohibition of Chemicals Ordinance – Chem Verbots V) & European Commission Directive 1999/51/EC	PASS	See test result on page 3
2) Free and Hydrolyzed Formaldehyde in Textiles	PASS	See test result on page 3
3) Azo Dyes Content (Analysis of Amines in Dyestuff)	PASS	See test result on page 4-5
4) Total Cadmium Content	PASS	See test result on page 5



XINDAO (SHANGHAI) CO., LTD
Technical Report: (6611)298-0902
DEC.16, 2011
Page 2 of 6

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**BUREAU VERITAS
CONSUMER PRODUCTS SERVICES (SHANGHAI)**

Ian Yang
LAB MANAGER (HARDLINE LAB)



The Test Results are Listed As Below:

1. Pentachlorophenol (PCP) Content - German Chemicals Act (Prohibition of Chemicals Ordinance – Chem Verbots V) & European Commission Directive 1999/51/EC

Test Method : §64 LFGB B 82.02-8:2001 (Modified)

Tested Item 1 : Black main fabric + black elastic band of eye-mask

Maximum Allowable Limit:	5 mg/kg
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Tested Item(s)	Result	Unit	Conclusion
1	ND	mg/kg	PASS

Note: ND = Not Detected mg/kg = milligram per kilogram Detection Limit (mg/kg): 1

2. Free and Hydrolyzed Formaldehyde in Textiles

Parameter	Unit	Result	Client's limit
		1	
Formaldehyde	mg/kg	ND	75ppm
Conclusion	-	PASS	-

Test Item 1: Black main fabric + black elastic band of eye-mask

Note: mg/kg = milligram per kilogram
ND = Not Detected
Detection Limit (mg/kg) : Each 20

Method: ISO 14184-1: 1998

3. Azo Dyes Content (Analysis of Amines in Dyestuff)

Test Method I : EN 14362-1:2003 incorporating Corrigendum 2005

Test Method II : EN 14362-2:2003 incorporating Corrigendum 2005

Test Method III : ISO 17234-1: 2010

Test Method IV : §64 LFGB B 82.02-9:2006

Quantification analysis by GC-MS and confirmation by LC-DAD.

Tested Item(s) : 1 Black main fabric + black elastic band of eye-mask

Client's Limit:	30 mg/kg
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Tested Item(s)	Test Method	Result			Conclusion
		Detected Analyte(s)	Conc.	Unit	
1	I +II	ND	ND	mg/kg	PASS

Note: ND = Not detected Conc. = Concentration
 mg/kg = milligram per kilogram Detection Limit (mg/kg): Each 10

- Remark:
- *Azo colorants that are able to form p-aminoazobenzene, generate aniline and 1,4-phenylenediamine under the condition of this method. Aniline and 1,4-phenylenediamine are not detected under the condition of this method.
 - *The presence of these colorants cannot be confirmed by the method stated as above. The result of p-aminoazobenzene shown is analysed and confirmed by §64 LFGB B 82.02-9.
 - ** Conducting the official method 4, 4-diaminodiphenylmethane has been detected. Please note that detected aromatic amines must stem from azo dyes but not from other materials e.g. Polyurethane. If forbidden amines are built by others materials (e.g. Polyurethane) the sample doesn't fail according to the European Legislation. By extracting the sample directly without applying the reduction step 4, 4-Diisocyanatodiphenylmethane has been detected.
 - The list of amines in azo dyestuff is summarized in table of Appendix.

APPENDIX

List of Amines in Azo Dyestuff:					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	4-Aminodiphenyl	92-67-1	13	p-Chloroaniline	106-47-8
2	Benzidine	92-87-5	14	p-Cresidine	120-71-8
3	4-Chloro-o-Toluidine	95-69-2	15	4,4'-Methylene-bis-(2-chloraniline)	101-14-4
4	2-Naphthylamine	91-59-8	16	4,4'-Oxydianiline	101-80-4
5	o-Aminoazotoluene	97-56-3	17	4,4'-Thiodianiline	139-65-1
6	2-Amino-4-nitrotoluene	99-55-8	18	2,4-Toluenediamine	95-80-7
7	2,4-Diaminoanisole	615-05-4	19	o-Toluidine	95-53-4
8	**4,4'-Diaminodiphenylmethane	101-77-9	20	2,4,5-Trimethylaniline	137-17-7
9	3,3'-Dichlorobenzidine	91-94-1	21	o-Anisidine	90-04-0
10	3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4	22	*p-Aminoazobenzene (4-Amino-azobenzene)	60-09-3
11	3,3'-Dimethylbenzidine (o-Tolidine)	119-93-7	23	2,4-Xylidine	95-68-1
12	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	24	2,6-Xylidine	87-62-7

4. Total Cadmium Content

Compounds	Unit	Tested item				Maximum Allowable Limit
		1	2	3	4	
Cadmium (Cd)	mg/kg	ND	ND	ND	ND	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Test Item 1: Grey main fabric of neck cushion
 Test Item 2: Transparent plastic air inlet
 Test Item 3: Black main fabric + black elastic band of eye-mask
 Test Item 4: Earplugs

Note: mg/kg = milligram per kilogram
 ND = Not Detected
 Detection Limit (mg/kg) : Each 10

Method: Acid digestion method (plastic), wet digestion method with mixed acid (metal), and determined by Inductively Coupled Argon Plasma Spectrometer / Atomic Absorption Spectrometer.

Remark: The test item was specified by the applicant

EXHIBIT



END

