



Pre-Test

Test Report: (6615)166-2427

Issue date: 24/09/2016

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Yuan Xin
ZHEJIANG SAS ZIPPER CO.,LTD
THE END OF THE DADE ROAD,WEST DONGSHENG ROAD,XIUZHOU
DIS,JIAXING

Sample Description: Sample(s) received is/are stated to be:
A) Pink zipper tape
Zipper tape (Direct Skin Contact)

Order No.: 2755 1518
Style No.: **LC Waikiki**
Age Group (Size): Child
Color: 18-2043TCX light red
Product End Use (Item Name): Girls ski jacket
Manufacturer (Source Name): ZHEJIANG SAS ZIPPER CO.,LTD
Country of Origin: CHINA
Country of Destination: Australia
Date of Receipt: 15/09/2016
Test Performing Period: 15/09/2016 to 24/09/2016

OVERALL RESULT

Chemical Test: **PASS**

REMARK

If there are questions or concerns on this report, please contact the following persons:

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**BUREAU VERITAS
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SUMMARY OF CHEMICAL TEST RESULTS

Test Requested	Conclusion
Azo Dyes	PASS
Disperse Dyes	PASS
Biocides – Pentachlorophenol (PCP)	PASS
Biocides – Tetrachlorophenol (TeCP) / o-Phenylphenol (OPP)	PASS
Chlorinated Organic Carriers (COCs)	PASS
Formaldehyde	PASS
pH Values	PASS
Polycyclic Aromatic Hydrocarbons (PAH)	PASS

COMPONENT LIST

Sample No.	Component No.	Sample description	Type of material
A	1	Pink zipper tape	-
A	2	Pink plastic zipper teeth	-

Type of Material

Type A: Textile contains natural fibers only and /or regenerated fibers exclude the group of acetate

Type B: Textile contains polyester fiber only

Type C: Textile contains man-made fibers and/ or man-made blend fiber

Type D: Plastic

Type E: Metal

Type F: Leather

Type G: Others



Azo Dyes

Test Method:

For Textiles - EN 14362-1:2012

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

Maximum Limit:	20 mg/kg (Each)			
		Result		
Amines	CAS-No.	1	2	-
4-Aminobiphenyl	92-67-1	ND	ND	-
Benzidine	92-87-5	ND	ND	-
4-Chlor-o-toluidine	95-69-2	ND	ND	-
2-Naphthylamine	91-59-8	ND	ND	-
o-Aminoazotoluene	97-56-3	ND	ND	-
5-Nitro-o-toluidine	99-55-8	ND	ND	-
4-Chloroaniline	109-47-8	ND	ND	-
2,4-Diaminoanisole	615-05-4	ND	ND	-
4,4'-Diaminodiphenylmethane (MDA)	101-77-9	ND	ND	-
3,3'-Dichlorbenzidine	91-94-1	ND	ND	-
3,3'-Dimethoxybenzidine	119-90-4	ND	ND	-
3,3'-Dimethylbenzidine	119-93-7	ND	ND	-
4,4'-Methylenedi-o-toluidine	838-88-0	ND	ND	-
p-Cresidine	120-71-8	ND	ND	-
4,4'-Methylene-bis-(2-Chloroaniline)	101-14-4	ND	ND	-
4,4'-Oxydianiline	101-80-4	ND	ND	-
4,4'-Thiodianiline	139-65-1	ND	ND	-
o-Toluidine	95-53-4	ND	ND	-
2,4-Toluenediamine (TDA)	95-80-7	ND	ND	-
2,4,5-Trimethylaniline	137-17-7	ND	ND	-
o-Anisidine	90-04-0	ND	ND	-
2,4 Xylidine	95-68-1	ND	ND	-
2,6 Xylidine	87-62-7	ND	ND	-
4-Aminoazobenzene (4-AAB)	60-09-3	ND	ND	-
Conclusion	-	PASS	PASS	-

Note: ND = Not detected

Unit: mg/kg (milligram per kilogram)

* = Exceeds the limit

= Exceeds the relevant requirement of 2 / 3-composite mix Detection Limit: 5 mg/kg

Remark:

- Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphthylamine (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.
- 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.



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- 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.

Disperse Dyes

Test Method : DIN 54231:2005

Maximum Limit:	5 mg/L (Each)
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Disperse Dyes	CAS-No.	Result		
		1	-	-
Disperse Blue 1	2475-45-8	ND	-	-
Disperse Yellow 3	2832-40-8	ND	-	-
Disperse Blue 3	2475-46-9	ND	-	-
Disperse Blue 7	3179-90-6	ND	-	-
Disperse Blue 26	3860-63-7	ND	-	-
Disperse Blue 35	12222-75-2	ND	-	-
Disperse Blue 102	12222-97-8	ND	-	-
Disperse Blue 109	12223-01-7	ND	-	-
Disperse Blue 124	61951-51-7	ND	-	-
Disperse Brown 1	23355-64-8	ND	-	-
Disperse Orange 1	2581-69-3	ND	-	-
Disperse Orange 3	730-40-5	ND	-	-
Disperse Orange 37/76/59	13301-61-6	ND	-	-
Disperse Orange 149	85136-74-9	ND	-	-
Disperse Red 1	2872-52-8	ND	-	-
Disperse Red 11	2872-48-2	ND	-	-
Disperse Red 17	3179-89-3	ND	-	-
Disperse Yellow 1	119-15-3	ND	-	-
Disperse Yellow 9	6373-73-5	ND	-	-
Disperse Yellow 23	6250-23-3	ND	-	-
Disperse Yellow 39	12236-29-2	ND	-	-
Disperse Yellow 49	54824-37-2	ND	-	-
Conclusion	-	PASS	-	-

Note: ND = Not detected
Unit: mg/L (milligram per litre)
* = Exceeds the limit
= Exceeds the relevant requirement of 2 / 3-composite
mix Detection Limit : 1 mg/L

**Biocides – Pentachlorophenol (PCP)**

Test Method :

Textiles and Leather –Extraction, sample preparation and determination according to method Par. 64 LGFB 82.02-08 with GC-MS.

Printed Polyester –Extraction with ASE or alkaline, sample preparation and determination according to method Par. 64 LFGB 82.02-08 with GC-MS.

Maximum Limit:	0.5 mg/kg
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Tested Item(s)	CAS No.	1	Result	
			-	-
Pentachlorophenol (PCP)	87-86-5	ND	-	-
Conclusion	-	PASS	-	-

Note: ND = Not detected

Unit: mg/kg (milligram per kilogram)

* = Exceeds the limit

= Exceeds the relevant requirement of 2 / 3-composite mix

Detection Limit: 0.05 mg/kg

Biocides – Tetrachlorophenol (TeCP) / o-Phenylphenol (OPP)

Test Method :

Textiles and Leather –Extraction, sample preparation and determination according to method Par. 64 LGFB 82.02-08 with GC-MS.

Printed Polyester –Extraction with ASE or alkaline, sample preparation and determination according to method Par. 64 LFGB 82.02-08 with GC-MS.

Maximum Limit:	Tetrachlorophenol (TeCP) –0.5 mg/kg o-Phenylphenol (OPP) –50 mg/kg
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Tested Item(s)	CAS No.	1	Result	
			-	-
Tetrachlorophenol (TeCP)	58-90-2 935-95-5 901-51-3	ND	-	-
o-Phenylphenol (OPP)	90-43-7	ND	-	-
Conclusion	-	PASS	-	-

Note: ND = Not detected

Unit: mg/kg (milligram per kilogram)

* = Exceeds the limit

= Exceeds the relevant requirement of 2 / 3-composite mix

Detection Limit: Tetrachlorophenol (TeCP) –0.05 mg/kg; o-Phenylphenol (OPP) –0.5 mg/kg



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Chlorinated Organic Carriers (COCs)

Test Method : Extraction with Dichloromethane. Analysis was performed with the use of Gas Chromatography – Mass Spectrometry (GC-MS).

Maximum Limit:	1.0 mg/kg (Total)
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Chlorinated Organic Carriers (COCs)	Result			
	CAS No.	1+2	-	-
Dichlorobenzenes	various	ND	-	-
Trichlorobenzenes	various	ND	-	-
Tetrachlorobenzenes	various	ND	-	-
Pentachlorobenzene	various	ND	-	-
Hexachlorobenzene	various	ND	-	-
Chlorotoluene	various	ND	-	-
Dichlorotoluenes	various	ND	-	-
Trichlorotoluene	various	ND	-	-
Tetrachlorotoluene	various	ND	-	-
Pentachlorotoluene	various	ND	-	-
Total	-	ND	-	-
Conclusion		PASS	-	-

Note: ND = Not detected
 Unit: mg/kg (milligram per kilogram)
 * = Exceeds the limit
 # = Exceeds the relevant requirement of 2 / 3-composite mix
 Detection Limit: 0.1 mg/kg



Formaldehyde

Test Method

Textiles – ISO 14184-1:2011 – Analysis was performed with UV/VIS Spectrometry.

Leather – ISO 17226-1 – Analysis was performed with HPLC.

Maximum Limit: 300 mg/kg	16 mg/kg (Textiles – baby articles) 75 mg/kg (Textiles – with direct skin contact) (Textiles – without direct skin contact) 50 mg/kg (Leather & Shoes – children <36 months) 150 mg/kg (Leather & Shoes)
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		Result	
Tested Item(s)	CAS No.	1+2	-
Formaldehyde	50-00-0	ND	-
Conclusion	-	PASS	-

Note: ND = Not detected

Unit: mg/kg (milligram per kilogram)

* = Exceeds the limit

= Exceeds the relevant requirement of 2 / 3-composite mix
Detection Limit: 5 mg/kg

pH-value

Test Method:

Textile - ISO 3071: 2005, extraction with potassium chloride

Leather - ISO 4045: 2008

Maximum Limit:	Baby articles and articles with direct skin contact – 4.0 - 7.5 Articles without direct skin contact – 4.0 - 9.0
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	Result	
Tested Item(s)	1	-
pH-value	7.0	-
Conclusion	PASS	-

Note: * = Exceeds the limit

Extraction medium

KCl solution

pH value of extraction medium

5.0 – 7.5

Temperature of the extraction solution

22°C



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Polycyclic Aromatic Hydrocarbons (PAH)

Test Method: With reference to test method mentioned in German AfPS GS 2014:01 PAK.

Maximum Limit:	Benzo(a)pyrene (BaP) – 1.0 mg/kg Sum of 18 PAHs – 10 mg/kg
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Tested Item(s)	CAS No.	2	Result	
			-	-
Acenaphthene (ANA)	83-32-9	ND	-	-
Acenaphthylene (ANY)	208-96-8	ND	-	-
Anthracene (ANT)	120-12-7	ND	-	-
Benzo(a)pyrene (BaP)	50-32-8	ND	-	-
Benzo(e)pyrene (BeP)	192-79-2	ND	-	-
Dibenzo(a,h)anthracene (DBA)	53-70-3	ND	-	-
Benzo(b)fluoranthene (BbF) and Benzo(j)fluoranthene (BjF)	205-99-2 205-82-3	ND	-	-
Benzo(k)fluoranthene (BkF)	207-08-9	ND	-	-
Fluoranthene (FLT)	209-44-0	ND	-	-
Fluorene (FLU)	86-73-7	ND	-	-
Indeno(1,2,3-c,d)pyrene (IPY)	193-39-5	ND	-	-
Napthalene (NAP)	91-20-3	ND	-	-
Phenanthrene (PHE)	85-01-8	ND	-	-
Pyrene (PYR)	129-00-0	ND	-	-
Benzo(a)anthracene (BaA)	56-55-3	ND	-	-
Benzo(g,h,i)perylene (BPE)	191-24-2	ND	-	-
Chrysene (CHR)	218-01-9	ND	-	-
Sum of 18 PAHs	-	ND	-	-
Conclusion	-	PASS	-	-

Note: ND = Not detected

Unit: mg/kg (milligram per kilogram)

* = Exceeds the limit

= Exceeds the relevant requirement of 2 / 3-composite
mix Detection Limit : 0.2 mg/kg