

# TEST REPORT

**APPLICANT** : Xindao B.V.

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

**SAMPLE DESCRIPTION** : Cooler backpack new colors

**ITEM NO.** : P733.18

**COUNTRY OF ORIGIN** : China

**COUNTRY OF DESTINATION** : Europe

**SAMPLE RECEIVED DATE** : 21-Oct-2014

**FURTHER INFORMATION DATE** : 22-Oct-2014

**TURN AROUND TIME** : 22-Oct-2014 to 28-Oct-2014, 5 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
- Based on the document ZEK 01.4-08 issued by the Central Experience Exchange Committee (ZLS-ZEK) – PAHs Content	Pass
- REACH Regulation (EC) No. 1907/2006, Annex XVII – PAHs Content	Pass

**Eurofins (Shanghai) contact information**

**Customer service:** [EmilyDeng@eurofins.com](mailto:EmilyDeng@eurofins.com) / 021-61819259

**Sales specialist:** [WandyShen@eurofins.com](mailto:WandyShen@eurofins.com) / 18616155723

\*\*\*\*\* 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  
Lab 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](mailto: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(S)**



**EFSH14101146-CG**

\*\*\*TO BE CONTINUED\*\*\*

**COMPONENT LIST**

Component No.	Component
1	Black plastic clasp
2	Black plastic zipper teeth
3	Red fabric body
4	Blue fabric body
5	Silvery fabric body
6	White lining
7	Black tape
8	Black edge
9	White edge (inner)
10	Black zipper 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		
Total Cadmium (Cd)	ND	ND	0.0005	0.01

**Note:**

M.D.L. = method detection limit

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

\*\*\*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 : BS 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		
			3+4	5	6
Conclusion	--	--	Pass	Pass	Pass
4-Aminobiphenyl	92-67-1	mg/kg	ND	ND	ND
4,4'-Benzidine	92-87-5	mg/kg	ND	ND	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	ND	ND	ND
2-Naphthylamine	91-59-8	mg/kg	ND	ND	ND
o-Aminoazotoluene <sup>1</sup>	97-56-3	mg/kg	ND	ND	ND
5-Nitro-o-toluidine <sup>2</sup>	99-55-8	mg/kg	ND	ND	ND
4-Chloroaniline	106-47-8	mg/kg	ND	ND	ND
4-Methoxy-1,3-phenylenediamine	615-05-4	mg/kg	ND	ND	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	ND	ND	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	ND	ND	ND
4,4'-Methylene bis(o-chloroaniline)	101-14-4	mg/kg	ND	ND	ND
4,4'-Oxydianiline	101-80-4	mg/kg	ND	ND	ND
4,4'-Thiodianiline	139-65-1	mg/kg	ND	ND	ND
o-Tolidine	95-53-4	mg/kg	ND	ND	ND
2,4-Diaminotoluene	95-80-7	mg/kg	ND	ND	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	ND	ND	ND
o-Anisidine	90-04-0	mg/kg	ND	ND	ND
4-Amino-azobenzene <sup>3</sup>	60-09-3	mg/kg	ND	ND	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.

Pass : According to the analysis carried out, AZO colorants, which release the listed Aromatic amines under Directive 2002/61/EC, were not detected.

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

\*\*\*TO BE CONTINUED\*\*\*

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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	
			7	9
Conclusion	--	--	Pass	Pass
4-Aminobiphenyl	92-67-1	mg/kg	ND	ND
4,4'-Benzidine	92-87-5	mg/kg	ND	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	ND	ND
2-Naphthylamine	91-59-8	mg/kg	ND	ND
o-Aminoazotoluene <sup>1</sup>	97-56-3	mg/kg	ND	ND
5-Nitro-o-toluidine <sup>2</sup>	99-55-8	mg/kg	ND	ND
4-Chloroaniline	106-47-8	mg/kg	ND	ND
4-Methoxy-1,3-phenylenediamine	615-05-4	mg/kg	ND	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	ND	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	ND	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	ND	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	ND	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	ND	ND
4,4'-Methylene bis(o-chloroaniline)	101-14-4	mg/kg	ND	ND
4,4'-Oxydianiline	101-80-4	mg/kg	ND	ND
4,4'-Thiodianiline	139-65-1	mg/kg	ND	ND
o-Tolidine	95-53-4	mg/kg	ND	ND
2,4-Diaminotoluene	95-80-7	mg/kg	ND	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	ND	ND
o-Anisidine	90-04-0	mg/kg	ND	ND
4-Amino-azobenzene <sup>3</sup>	60-09-3	mg/kg	ND	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.

Pass : According to the analysis carried out, AZO colorants, which release the listed Aromatic amines under Directive 2002/61/EC, were not detected.

\*\*\*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 : BS EN 14362-1:2012 and BS EN 14362-3:2012  
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	
			8	10
Conclusion	--	--	Pass	Pass
4-Aminobiphenyl	92-67-1	mg/kg	ND	ND
4,4'-Benzidine	92-87-5	mg/kg	ND	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	ND	ND
2-Naphthylamine	91-59-8	mg/kg	ND	ND
o-Aminoazotoluene <sup>1</sup>	97-56-3	mg/kg	ND	ND
5-Nitro-o-toluidine <sup>2</sup>	99-55-8	mg/kg	ND	ND
4-Chloroaniline	106-47-8	mg/kg	ND	ND
4-Methoxy-1,3-phenylenediamine	615-05-4	mg/kg	ND	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	ND	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	ND	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	ND	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	ND	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	ND	ND
4,4'-Methylene bis(o-chloroaniline)	101-14-4	mg/kg	ND	ND
4,4'-Oxydianiline	101-80-4	mg/kg	ND	ND
4,4'-Thiodianiline	139-65-1	mg/kg	ND	ND
o-Tolidine	95-53-4	mg/kg	ND	ND
2,4-Diaminotoluene	95-80-7	mg/kg	ND	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	ND	ND
o-Anisidine	90-04-0	mg/kg	ND	ND
4-Amino-azobenzene <sup>3</sup>	60-09-3	mg/kg	ND	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.

Pass : According to the analysis carried out, AZO colorants, which release the listed Aromatic amines under Directive 2002/61/EC, were not detected.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Polycyclic Aromatic Hydrocarbons (PAHs)

Test specification : 18 Polycyclic Aromatic Hydrocarbons in polymers (PAHs) (defined in US EPA Method 610, and also Based on the document ZEK 01.4-08)

Test method : Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to ZEK 01.4-08

Requirement : ZLS-ZEK 01.4-08 (table 1): Limits for PAH in products. see below:

Parameter	Category 1 Materials intended to be put in the mouth, or toys for children<36 months	Category 2 Materials with foreseeable contact to skin for longer than 30 seconds (long-term skin contact) and toys not covered by category 1	Category 3 Materials with foreseeable contact to skin up to 30 seconds (short-term skin contact) or without skin contact	
Benzo(a)pyrene(mg/kg)	<0.2	1	20	
Sum 18 PAHs(mg/kg)	<0.2	10	200	
Parameter	CAS No.	Unit	Result	
			1	2
Group PAHs	--	mg/kg	ND	ND
Acenaphthene	83-32-9	mg/kg	ND	ND
Acenaphthylene	208-96-8	mg/kg	ND	ND
Anthracene	120-12-7	mg/kg	ND	ND
Benzo(a)anthracene	56-55-3	mg/kg	ND	ND
Benzo(a)pyrene	50-32-8	mg/kg	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND	ND
Benzo(ghi)perylene	191-24-2	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
Fluoranthene	206-44-0	mg/kg	ND	ND
Fluorene	86-73-7	mg/kg	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND	ND
Naphthalene	91-20-3	mg/kg	ND	ND
Phenanthrene	1985-1-8	mg/kg	ND	ND
Pyrene	129-00-0	mg/kg	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND	ND
Summary to above mentioned requirement:	For Category 2 skin contact more than 30 sec		Pass	Pass

**Note:**

mg/kg = milligram per kilogram

ND=not detected, less than 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		
Benzo(a)anthracene	ND	ND	0.1	1
Chrysene	ND	ND	0.1	1
Benzo(b)fluoranthene	ND	ND	0.2	1
Benzo(j)fluoranthene				
Benzo(k)fluoranthene	ND	ND	0.1	1
Benzo(a)pyrene	ND	ND	0.1	1
Dibenzo(a,h)anthracene	ND	ND	0.1	1
Benzo(e)pyrene	ND	ND	0.1	1

**Note:**

M.D.L. = method detection limit

ND = Not detected, less than detection limit

\*\*\* END OF THE REPORT \*\*\*