

TEST REPORT

Report No.:WTF22F10204021A1CApplicant:Mid Ocean Brands B.V.

Address : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan,

Kowloon, Hong Kong

Manufacturer.....: 114103

Sample Name : Lanyard with badge reel and safety break

Sample Model : MO9852

63 (EC) No. 1907/2006 and the amendment No.

836/2012 and (EU) 2015/628

2) Determination of Cadmium content in the submitted sample in accordance with REACH regulation Annex XVII Entries 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011, No. 835/2012 and (EU)

2016/217

 Determination of specified Phthalates content according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & No.

2018/2005

4) Determine the specified AZO Colorants contents in the submitted sample in according to the Entries 43 in Annex XVII of the REACH Regulation (EC) No.1907/2006 and the Amendment Regulation (EC) No.552/ 2009 & No.126/ 2013 (previously restricted under Directive 2002/61/EC).

5) As requested by the applicant, to test Colour Fastness to

Rubbing in the submitted sample.

Test Conclusion: Refer to next page (s)

Date of Receipt sample..... 2022-10-14 & 2022-11-03

Testing period..... : 2022-10-14 to 2022-11-09

Date of Issue : 2022-11-09

Test Result : Refer to next page (s)

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Signed for and on behalf of

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WT-F-510-3003-05-A





Sample photo:





Test Results:

1) Lead (Pb)

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

- LEX STEX	LOQ	Results (n	Limit	
Test Item	(mg/kg)	No.1+No.2+No.3	No.4	(mg/kg)
Lead(Pb)	2	ND*	ND -	500
Conclusion	* - *	Pass	Pass	21 21 -

the title	LOQ	Results	Limit	
Test Item	(mg/kg)	No.5+No.6+No.7	No.8+No.9+No.10	(mg/kg)
Lead(Pb)	2	ND*	ND*	500
Conclusion	st of the	Pass	Pass	10 10

Test Item	LOQ		Results (mg/kg)		Limit
	(mg/kg)	No.11	No.12+No.13 +No.14	No.15	(mg/kg)
Lead(Pb)	2	127	ND*	21	500
Conclusion	rd \	Pass	Pass	Pass	1 - 1th

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (4) Limit of Lead was quoted from REACH regulation Annex XVII Item 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628.
- (5) "*" = Results are calculated by the minimum weight of mixed components.
- (6) The test sample of specimen No.15 is received on the date of 2022-10-14.



2) Cadmium (Cd)

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

7/1 7/2 V	LOQ	Results (m	ng/kg)
Test Item	(mg/kg)	No.1+No.2+No.3	No.4
Cadmium(Cd)	2	COND* COND*	ND
Conclusion	MurMr. 1	Pass	Pass

T	LOQ	Results (r	mg/kg)
Test Item	(mg/kg)	No.5+No.6+No.7	No.8+No.9+No.10
Cadmium(Cd)	2	ND*	ND*
Conclusion	mr - m	Pass	Pass

Took How	LOQ	Results (mg/k	(g) (l)
Test Item	(mg/kg)	No.11	No.15
Cadmium(Cd)	2	THE ND WELL ME ME	ND
Conclusion	20 - 20 2	Pass	Pass

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (4) Limit of Cadmium according to REACH regulation Annex XVII Item 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011 and No. 835/2012 and (EU) 2016/217.

Category	Limit (mg/kg)
Wet paint	100
Surface coating	1000
Plastic	100
Metal parts of jewellery and hair accessories	100

- (5) "*" = Results are calculated by the minimum weight of mixed components.
- (6) The test sample of specimen No.15 is received on the date of 2022-11-03.



3) Phthalates

Test Method: With reference to EN14372:2004, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test Items	LOQ	Results (%)		Limit
My My My A	(%)	No.4	No.5+No.6+No.7	(%)
Benzyl butyl phthalate (BBP)	0.005	ND	ND*	WILLER MULTER AND
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND	ND*	sum of four phthalates < 0.1
Dibutyl phthalate (DBP)	0.005	ND	ND*	
Diisobutyl phthalate (DIBP)	0.005	ND	ND*	it inter whiter
Diisodecyl phthalate (DIDP)	0.01	ND	ND*	at at
Diisononyl phthalate (DINP)	0.01	ND ND	ND*	sum of three phthalates < 0.1
Di-n-octyl phthalate (DNOP)	0.005	ND	ND*	printial cos v 0.1
Conclusion	+ e+	Pass	Pass	10, 10,

Test Items	LOQ	3	sults %)	Limit
	(%)	No.11	No.15	(%)
Benzyl butyl phthalate (BBP)	0.005	ND	ND	14 14 14
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	0.008	0.018	sum of four
Dibutyl phthalate (DBP)	0.005	ND	ND	phthalates < 0.1
Diisobutyl phthalate (DIBP)	0.005	ND	ND	ye were men
Diisodecyl phthalate (DIDP)	0.01	ND	ND	ILY MITER WITE
Diisononyl phthalate (DINP)	0.01	ND ND	ND	sum of three phthalates < 0.1
Di-n-octyl phthalate (DNOP)	0.005	ND	ND	prinidates < 0.1
Conclusion	1, 11, 11	Pass	Pass	at the of



Note:

DBP= Dibutyl phthalate

BBP= Benzyl butyl phthalate

DEHP= Bis-(2-ethylhexyl)- phthalate

DIDP= Di-isodecyl phthalate

DIDP= Di-isodecyl phthalate

DIBP= Diisobutyl phthalate

(1) % = percentage by weight

(2) ND = Not Detected or lower than limit of quantitation

(3) LOQ = Limit of quantitation

(4) "<" = less than

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

(6) "*" = Results are calculated by the minimum weight of mixed components.

(7) The test sample of specimen No.15 is received on the date of 2022-11-03.





4) AZO

Test Method: With reference to BS EN ISO 14362-1: 2017 and BS EN ISO 14362-3: 2017, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS)

No.	Amines Substances	CAS No.	Limit	Result (mg/kg)
NO.	Allilles Substances	CAS NO.	(mg/kg)	No.8+No.9
1	4-Aminobiphenyl	92-67-1	30	ND*
2	Benzidine	92-87-5	30	ND*
3	4-chloro-o-Toluidine	95-69-2	30	ND*
4	2-Naphthylamine	91-59-8	30	ND*
5	o-Aminoazotoluene	97-56-3	30	ND*
6	2-Amino-4-nitrotoluene	99-55-8	30	ND*
7	p-Chloroaniline	106-47-8	30	ND*
8	2,4-diaminoanisol	615-05-4	30	ND*
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND*
10	3,3'-Dichlorobenzidine	91-94-1	30	MD* MD
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND*
12	3,3'-Dimethylbenzidine	119-93-7	30	ND*/
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND*
14	p-cresinin	120-71-8	30	ND*
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND*
16	4,4'-Oxydianiline	101-80-4	30	ND*
17	4,4'-Thiodianiline	139-65-1	30	ND*
18	o-Toluidine	95-53-4	30	ND*
19	2,4-Toluylendiamine	95-80-7	30	ND*
20	2,4,5 – Trimethylaniline	137-17-7	30	ND*
21	o-anisidine	90-04-0	30	ND*
22	4-aminoazobenzene	60-09-3	30	ND*
23	2,4-Xylidin	95-68-1	30	ND*
24	2,6-Xylidin	87-62-7	30	ND*
EN	Conclusion		A A	Pass

Note

- ND = Not Detected or lower than limit of quantitation
- mg/kg=Milligram per kilogram
- Limit of quantitation (mg/kg): Each 5mg/kg
- The CAS-numbers 97-56-3 and 99-55-8 are further reduced to CAS-numbers 95-53-4 and 95-80-7.
- AZO colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4-phenylenediamine. The presence of these colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorant used.
- The CAS-numbers 95-68-1 and 87-62-7 are not proscribed under REACH Regulation (EC) No 1907/2006
- "*" = Results are calculated by the minimum weight of mixed components.



5) Colour Fastness to Rubbing

Colour Fastness to Rubbing						
(ISO 105-X1	2: 2016; Size of rubbing fi	nger: 16mm diameter.)		at at at		
are an	111 24 2	No.8	No.9	Client's Limit		
Length	Dry staining	4-5	4-5	2-3		
	Wet staining	4	4-5	2-3		
11. 12.	Dry staining	4-5	4-5	2-3		
Width	Wet staining	11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4-5	2-3		
Conclusion	14, 14, 2,	Pass	Pass	ne me - m		

Note:

(1) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Specimen No.	Specimen Description	
EX TEX STATE MITER MITER MITER	Black plastic part	
2 30 1	White plastic part	
MITEL MILE 3 MILE MILE OF LES	Blue plastic part	
4 4 7 7 7	Black fabric wire	
n-1	Black plastic shell	
THE STATE OF	Blue plastic shell	
7 pt get get	White plastic shell	
until unit 8 uni uni	Black webbing	
the tel 9 tel attended to	Blue webbing	
10	White webbing	
LIET WHITE WITE WAS AND WAY	Black plastic buckle	
A 12 THE LITTER WITH	Silvery metal ring	
Mr. 13 Mr. 13	Silvery metal eyelet	
Lifet mit 14 mile mail y him	Silvery metal buckle	
15	Transparent plastic sheet	



Photograph of parts tested:





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===== End of Report =====

