

TEST REPORT

Reference No. WTF21F10113708C

Applicant: Mid Ocean Brands B.V.

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

Hong Kong

Manufacturer..... 115582

Backpack with zippered outside pocket and padded back Sample Name.....

MO9577

Test Requested..... 1) Determination of Lead content in the submitted sample in accordance with REACH regulation Annex XVII Entries 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

3) 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).

4) 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

5) As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.

Test Method Please refer to next page (s) Test Conclusion Please refer to next page (s)

Date of Receipt sample..... 2021-10-25

Date of Test..... 2021-10-25 to 2021-11-02

Date of Issue 2021-11-03

Test Result..... Please refer to next page (s)

As specified by client, only test the designated sample. Note::

The results shown in this test report refer only to the sample(s) tested; this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.

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Page 1 of 12

Test Result:

1) Lead (Pb)

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

The manifest of	LOQ	Results	s (mg/kg)	Limit	
Test Item	(mg/kg)	No.1+No.2+No.3	No.4+No.5+No.13	(mg/kg)	
Lead(Pb)	2	ND*	ND*	500	
Conclusion	A - A	Pass	Pass	711. 72.	

Talk kama Till	LOQ	Results (m	ig/kg)	Limit	
Test Item	(mg/kg)	No.6+No.9+No.11	No.7	(mg/kg)	
Lead(Pb)	2 2	ND*	ND	500	
Conclusion	A - A	Pass	Pass	7/1 - 72	

Tool Home Light	LOQ	Results (Limit		
Test Item	(mg/kg)	No.8+No.10	No.12	(mg/kg)	
Lead(Pb)	2	ND*	23	500	
Conclusion		Pass	Pass	70, -	

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.



2) Cadmium (Cd)

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

TOWN HOUSE WAY	LOQ	Results ((mg/kg)
Test Item	(mg/kg)	No.1+No.2+No.3	No.4+No.5+No.13
Cadmium(Cd)	2	ND*	ND*
Conclusion	78t -78t J	Pass	Pass

- SLIEM WALTER WA	LOQ	The Lan	Results (mg/kg)	
Test Item	(mg/kg)	No.6+No.9+No.11	No.7	No.8+No.10
Cadmium(Cd)	2	ND*	ND ND	ND*
Conclusion	- TEX - TEX	Pass	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.



3) 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)
INO.	Ammes Substances	CAS NO.	(mg/kg)	No.1+No.2+No.3
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*
7.0	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	ND*
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*
ال	Conclusion	10 A	et (18th	Pass



1	Anima Outatana	CAC N-	Limit	Result (mg/kg)	
No.	Amines Substances	CAS No.	(mg/kg)	No.4+No.5+No.13	
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	ND*	
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*	
	Conclusion	- <u>(-</u> E	116 - W.	Pass	



No.	Amines Substances	CAS No.	Limit	Result (mg/kg)
140.	Animos oubstances	OAO 110.	(mg/kg)	No.6+No.7+No.9
1.5	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	ND*
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*
	Conclusion	- VIET (7 - W.	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.



4) Phthalates

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

Test Items	LOQ	Results (%)	Limit	
	(%)	No.8+No.10	(%)	
Benzyl butyl phthalate (BBP)	0.005	ND*	LIEF NLIEF MIEF N	
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	MV AN AN AN	sum of four	
Dibutyl phthalate (DBP)	0.005	ND*	phthalates < 0.1	
Diisobutyl phthalate (DIBP)	0.005	ND*	- NEW WITE	
Diisodecyl phthalate (DIDP)	0.01	ND*	The state of	
Diisononyl phthalate (DINP)	0.01	ND*	sum of three phthalates < 0.1	
Di-n-octyl phthalate (DNOP)	0.005	ND*	printidates < 0.1	
Conclusion	10th- 51th	Pass	n m m	

Note:

DBP= Dibutyl phthalate
DINP= Di-isononyl 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.



5) Colour Fastness to Rubbing

Colour Fastness to Rubbing						
(ISO 105 X12: 2001/C	or 2002; Size of rul	obing finger: 16r	nm diameter.)	et e	t TER TER	
24. 24. 2.	No.1	No.2	No.3	No.4	Client's Limit	
Dry staining	4	4-5	4-5	4-5	2-3	
Wet staining	3	4-5	3	4-5	2-3	
Conclusion	Pass	Pass	Pass	Pass	- 7	

Colour Fastness to	Rubbing	me me		L 14 1	IN THE CHE
(ISO 105 X12: 2001/Cor 2002; Size of rubbing finger: 16mm diameter.)					
1 1 1	No.5	No.7	No.9	No.13	Client's Limit
Dry staining	4-5	4-5	4-5	4-5	2-3
Wet staining	4-5	4-5	4-5	4-5	2-3
Conclusion	Pass	Pass	Pass	Pass	All State of

Note:

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

Test Specimen Description:

No.1: Red fabric

No.2: Orange fabric

No.3: Blue fabric

No.4: Black fabric

No.5: Yellow fabric

No.6: Black fabric rim

No.7: Black webbing

No.8: Black plastic buckle

No.9: Black fabric

No.10: Black plastic zipper tooth

No.11: Black fabric zipper band

No.12: Silvery metal zipper head

No.13: Blue fabric

W

Sample photo:





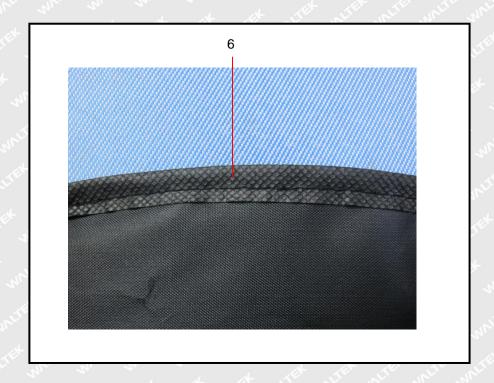


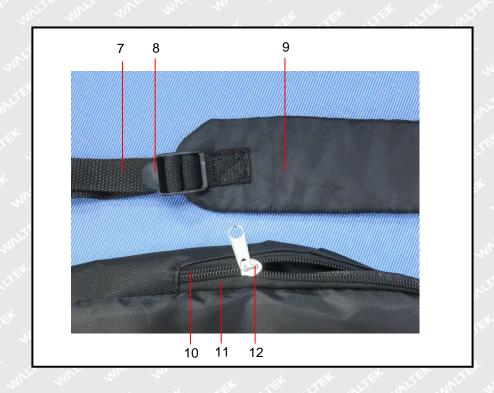


Photographs of parts tested:













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

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