

# TEST REPORT

Reference No.	:	WTF21F05043388C
Applicant	Alle	Mid Ocean Brands B.V.
Address Manufacturer		7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong 111652
Sample Name	Υ.	Backpack
Model No.	Ģ	MO9412
Test Method		<ol> <li>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</li> <li>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</li> <li>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 &amp; No.126/ 2013 (previously restricted under Directive 2002/61/EC).</li> <li>Determination of specified Phthalates content according to Annex XVII Items 51 &amp; 52 of the REACH Regulation (EC) No. 1907/2006 &amp; Amendment No. 552/2009 &amp; No. 2018/2005</li> <li>As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.</li> </ol>
Test Method		Please refer to next page (s)
Test Conclusion	÷	Please refer to next page (s)
Date of Receipt sample	12	2021-05-07
Date of Test	:	2021-05-07 to 2021-05-18
Date of Issue	an C	2021-05-18
Test Result	: 1	Please refer to next page (s)
Note	12	As specified by client, only test the designated sample.

#### Remarks:

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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#### **Test Result:**

#### 1) Lead (Pb)

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

The least	LOQ	Results (mg/kg)				
Test Item	(mg/kg)	No.1	No.2+No.3+No.4	No.5+No.6+No.12	(mg/kg)	
Lead(Pb)	2	ND S	ND*	-82*	500	
Conclusion	74	Pass	Pass	Pass		

- all the set	LOQ	Results (mg/kg)				
Test Item	(mg/kg)	No.7	No.8	No.9+No.17	(mg/kg)	
Lead(Pb)	2	ND ND	ND	90*	500	
Conclusion	4. <del>.</del>	Pass	Pass	Pass		

Tool Home St	LOQ		Results (mg/kg)		Limit
Test Item	(mg/kg)	No.10+No.11	No.13+No.16	No.14+No.15	(mg/kg)
Lead(Pb)	2	ND*	ND*	ND*	500
Conclusion		Pass	Pass	Pass	4° - ~

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.



100

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## 2) Cadmium (Cd)

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

Tool Kom	LOQ	me m	Results (mg/kg)	
Test Item	(mg/kg)	No.2+No.3+No.4	No.5+No.6+No.12	No.14+No.15
Cadmium(Cd)	2	ND*	ND*	ND*
Conclusion	14 - 514	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)		
NO.	Animes Substances	CAS NO.	(mg/kg)	No.1	No.8	
10	4-Aminobiphenyl	92-67-1	30	ND	ND	
2	Benzidine	92-87-5	30	ND ND	ND	
્ર ઉ	4-chloro-o-Toluidine	95-69-2	30	ND	ND	
4 🔊	2-Naphthylamine	91-59-8	30	ND.	ND	
5	o-Aminoazotoluene	97-56-3	30	ND	ND	
6	2-Amino-4-nitrotoluene	99-55-8	30	ND	ND	
7,	p-Chloroaniline	106-47-8	30	ND	ND	
8	2,4-diaminoanisol	615-05-4	s <sup>23</sup> 30 s <sup>2</sup>	ND V	ND	
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND	ND	
10	3,3'-Dichlorobenzidine	91-94-1	30	M ND M	ND	
11			30	ND ST	ND	
12			30	ND	ND	
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND ND	ND	
14	p-cresinin	120-71-8	<u>30</u> 30	ND	ND	
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND	ND	
16	4,4'-Oxydianiline	101-80-4	30	ND	ND	
17	4,4'-Thiodianiline	139-65-1	30	ND	ND	
18	o-Toluidine	95-53-4	30	ND	ND	
19	2,4-Toluylendiamine	95-80-7	30	ND	ND	
20	2,4,5 – Trimethylaniline	137-17-7	30	ND	ND	
21	o-anisidine	90-04-0	30	ND	ND	
22	4-aminoazobenzene	60-09-3	30	ND	ND	
23	2,4-Xylidin	95-68-1	<u>30</u>	ND	ND	
24	2,6-Xylidin	87-62-7	30	ND	ND	
1	Conclusion	1 <del>1 -</del> 1	\$	Pass	Pass	



No.	Amines Substances	CAS No.	Limit	Result (mg/kg)
NO.		CAS NO.	(mg/kg)	No.10+No.11
15	4-Aminobiphenyl	92-67-1	30	ND*
2	Benzidine	92-87-5	30 - 01	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	at 30 at	ND*
6	2-Amino-4-nitrotoluene	99-55-8	-30	ND*
7,05	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*
N	Conclusion	· Jan	are - na	Pass



No.	Amines Substances	CAS No.	Limit	Result (mg/kg)
NO.		CAS NO.	(mg/kg)	No.13+No.16
_1	4-Aminobiphenyl	92-67-1	30	ND*
2	Benzidine	92-87-5	30 - 00	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	at 30 at	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 5	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	- Jahr	L'IL - ML	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.

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## 4) Phthalates

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

Test Items	LOQ	and the second	Results (%)		
	(%)	No.2+No.3+No.4	No.5+No.6+No.12	(%)	
Benzyl butyl phthalate (BBP)	0.005	ND*	ND*	A INTER MAL	
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND*	0.008*	sum of four phthalates < 0.1	
Dibutyl phthalate (DBP)	0.005	ND*	ND*		
Diisobutyl phthalate (DIBP)	0.005	ND*	ND*		
Diisodecyl phthalate (DIDP)	0.01	ND* V	ND*	sum of three	
Diisononyl phthalate (DINP)	0.01	ND*	ND*	phthalates <	
Di-n-octyl phthalate (DNOP)	0.005	ND*	ND*	0.1	
Conclusion	<i>d</i>	Pass	Pass	20 - 20 J	

#### Note:

DBP= Dibutyl phthalate DINP= Di-isononyl phthalate DIBP= Diisobutyl phthalate DEHP= Bis-(2-ethylhexyl)- phthalate DIDP= Di-isodecyl 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.

BBP= Benzyl butyl phthalate

DNOP= Di-n-octyl phthalate

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



## 5) Colour Fastness to Rubbing

Colour Fastness to Rubbing									
(ISO 105	-X12: 2016; Size o	the state	JEE JEE						
2m 2		No.1	No.10+No.11	No.13	No.16	Client's Limit			
Length	Dry staining	4-5	4-5*	4-5	4-5	2-3			
	Wet staining	4-5	4-5*	4-5	4-5	2-3			
\\/idth	Dry staining	4-5	4-5*	me m	4-5	2-3			
Width	Wet staining	4-5	4-5*	1.00	4-5	2-3			
Conclusi	ion	Pass	Pass 🖉	Pass	Pass	24 -2			

#### Note:

(1) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.
(2) "\*" = As per applicant's requirement, the testing was conducted based on mixed components.

#### **Test Specimen Description:**

No.1: Dark grey main fabric No.2: Yellow soft plastic strip No.3: Red soft plastic strip No.4: Blue soft plastic strip No.5: Black plastic buckle No.6: Black plastic buckle No.7: Silvery metal eyelet No.8: Black fabric handle No.9: Silvery metal zipper head No.10: Black net fabric No.11: Black elastic band No.12: Black plastic buckle No.13: Black webbing No.14: Black plastic zipper tooth No.15: Black plastic zipper tooth No.16: Black lining No.17: Silvery metal zipper head

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# Sample photo:





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# Photographs of parts tested:

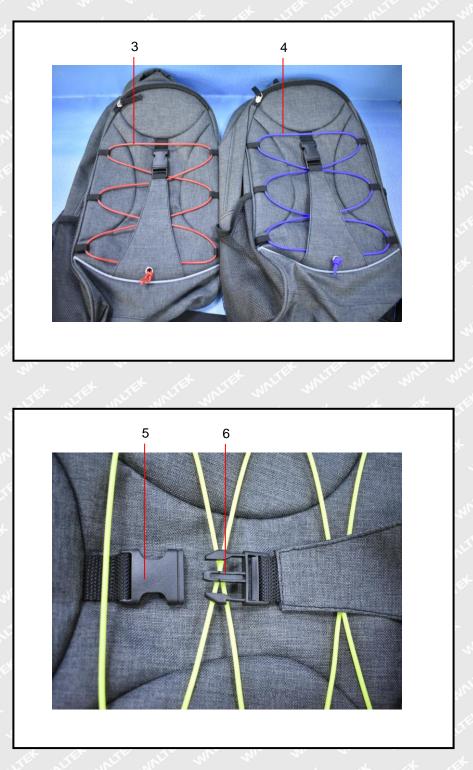


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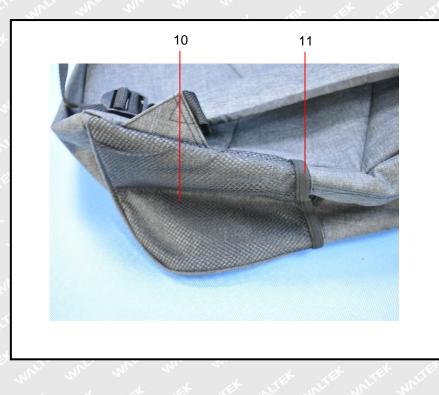
\*





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