



TEST REPORT

Test Report # 17A-003861-1 Date of Report Issue: November 30, 2017
Date of Sample Received: November 22, 2017 Pages: Page 1 of 16

CLIENT INFORMATION:

Company: Mid Ocean Brands B.V.
Address: Unit 201, 2/F, Laford Centre, 838 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong



SAMPLE INFORMATION:

Product Name: Waterproof backpack
Model/style No.: MO9302
Main Material: tarpaulin
Buyer: Mid Ocean Brands B.V.
Supplier: 100396
Country of Distribution: EU
Testing Period: 11/22/2017-11/30/2017

OVERALL RESULT:

PASS with information

Refer to page 2 for test result summary and appropriate notes.

HANGZHOU ASIAINSPECTION TECHNOLOGY CO., LTD

Kevin Lee
Technical Manager





TEST REPORT

Test Report # 17A-003861-1 Date of Report Issue: November 30, 2017
Date of Sample Received: November 22, 2017 Pages: Page 2 of 16

TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
Refer to Detailed Results	Colour Fastness to Rubbing
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Paints and Surface Coatings
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII as Amended by Commission Regulation (EC) No. 835/2012, Item 23 Cadmium
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DnOP, DINP, DIDP, DIBP)
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles





DETAILED RESULTS:

Colour Fastness to Rubbing

Test Method: ISO 105-X12: 2016, Size of rubbing finger: 16mm dia.

Specimen No.	3		
Items	Client's requirement	Result (Grade)	Conclusion
Dry staining	N/A	4-5	Information only
Wet staining	N/A	4-5	

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.





DETAILED RESULTS:

Colour Fastness to Rubbing

Test Method: ISO 105-X12: 2016, Size of rubbing finger: 16mm dia.

Specimen No.	5		
Items	Client's requirement	Result (Grade)	Conclusion
Dry staining	N/A	4	Information only
Wet staining	N/A	4-5	

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.



**DETAILED RESULTS:****Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Paints and Surface Coatings**

Test Method: CPSC-CH-E-1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	7	-	-	-	-	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	-	-	-	-	500
Conclusion	PASS	-	-	-	-	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)





DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal) and/or CPSC-CH-E1002-08.3 (Non-Metal)

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	8	1+2	4+6	-	-	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	19	ND	ND	-	-	500
Conclusion	PASS	PASS	PASS	-	-	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



**DETAILED RESULTS:****Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials**

Test Method: ASTM F963-16 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	8	-	-	-	-	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	-	-	-	-	100
Conclusion	PASS	-	-	-	-	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)



**DETAILED RESULTS:****Regulation (EC) No. 1907/2006 REACH Annex XVII as Amended by Commission Regulation (EC) No. 835/2012, Item 23 Cadmium**

Test Method: EN 1122:2001 Method B

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	7	1+2	4+6	-	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	Trial 1	ND	ND	ND	-
	Trial 2	ND	ND	ND	-
	Mean	ND	ND	ND	-
Conclusion	PASS	PASS	PASS	-	100

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



**DETAILED RESULTS:****Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DnOP, DINP, DIDP, DIBP)**

Test Method: CPSC-CH-C1001-09.3

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.	1+2	4+6	-	-	Client's limit (% m/m)
Test Item	CAS No.	Result (% m/m)	Result (% m/m)	Result (% m/m)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	-	
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	-	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	-	
Sum of DBP, BBP, DEHP		ND	ND	-	0.1
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	-	
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	-	
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	-	
Sum of DnOP, DINP, DIDP		ND	ND	-	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	-	0.1
Conclusion		PASS	PASS	-	

Note:

% m/m = Percent by mass

LT = Less than

ND = Not detected (Reporting Limit = 0.015 % m/m)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

The specification is quoted from client's requirement.



**DETAILED RESULTS:****Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles**

Test Method: EN 14362-1:2012
 Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.	3+5	-	-	-	Limit (mg/kg)	
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
4-aminobiphenyl	92-67-1	ND	-	-	-	30
Benzidine	92-87-5	ND	-	-	-	30
4-chloro-o-toluidine	95-69-2	ND	-	-	-	30
2-naphthylamine	91-59-8	ND	-	-	-	30
2-Amino-4-Nitrotoluene	97-56-3	ND	-	-	-	30
5-nitro-o-toluidine	99-55-8	ND	-	-	-	30
4-chloroaniline	106-47-8	ND	-	-	-	30
4 methoxy-m - phenylenediamine	615-05-4	ND	-	-	-	30
4,4'-diaminodiphenyl methane	101-77-9	ND	-	-	-	30
3,3'-dichlorobenzidine	91-94-1	ND	-	-	-	30
3,3'-dimethoxybenzidine	119-90-4	ND	-	-	-	30
3,3'-dimethylbenzidine	119-93-7	ND	-	-	-	30
3,3'-dimethyl-4,4'-diaminodiphenyl methane	838-88-0	ND	-	-	-	30
p-cresidine	120-71-8	ND	-	-	-	30
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	ND	-	-	-	30
4,4'-oxydianiline	101-80-4	ND	-	-	-	30
4,4'-thiodianiline	139-65-1	ND	-	-	-	30
o-toluidine	95-53-4	ND	-	-	-	30
2,4-toluylenediamine	95-80-7	ND	-	-	-	30
2,4,5-trimethylaniline	137-17-7	ND	-	-	-	30
2-methoxyaniline	90-04-0	ND	-	-	-	30
4-aminoazobenzene	60-09-3	ND	-	-	-	30
Conclusion		PASS	-	-	-	





Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 5 mg/kg)

Composite results are based on total mass of the composite test portion.

Remark:

In the case of levels per amine component less than or equal to 30 mg/kg, according to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected in the commodity submitted.





SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Blue tarpaulin	Main body of blue style
2	Black tarpaulin	Main body of blue style
3	Black woven textile	Top of backpack
4	Black plastic	Plastic buckle
5	Black mesh textile	Straps
6	Black plastic	Zipper teeth
7	Black coating	Zipper head
8	Silver metal	Zipper head





SAMPLE PHOTO:





SAMPLE PHOTO:





SAMPLE PHOTO:





SAMPLE PHOTO:



-End Report-

