

Test Report

Report No.: AGC03507191009-001

Date: Oct.22, 2019

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Applicant: MID OCEAN BRANDS B.V
Address: 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Test site: 1,6/F.,Building 2,No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong, China

Report on the submitted samples said to be:

Sample Name : Shopping bag
Model No. : MO9003
Supplier : 107978
Country of Origin : CHINA
Country of Destination : EUROPE
Sample Receiving Date : Oct.17, 2019
Testing Period : Oct.17, 2019 to Oct.22, 2019

Test Requested: : Please refer to next page(s).

Test Method : Please refer to next page(s).

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

Approved by:

Liulinwen, Lewis

Technical Director



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Test Requested:

1. As specified by client, to determine the Lead and Lead compounds content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006.
2. As specified by client, to determine the Cadmium(Cd)content in the submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.
3. As specified by client, to determine the phthalates content in the submitted sample(s) with reference to entry 51 and its amendment (EU)2018/2005& entry 52, Annex XVII of the REACH Regulation (EC) No 1907/2006 and Amendment Regulation (EC) No 552/2009.
4. As specified by client, to determine Azocolourants and Azodyes in the submitted sample with reference to Entry 43, Annex XVII of the REACH Regulation (EC) No 1907/2006.
5. As specified by client, to determine the color fastness to rubbing of the submitted sample.

Conclusion

Pass

Pass

Pass

Pass

Pass

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Test Result(s):
1. Test Result(s) of Lead and Lead compounds content

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-1	1-2	1-3	
Lead (Pb)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	500
Conclusion	ICP-OES	/	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-4	1-5	1-6	
Lead (Pb)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	500
Conclusion	ICP-OES	/	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-7	1-8	1-9	
Lead (Pb)	IEC 62321-5:2013	10	N.D.	N.D.	48	500
Conclusion	ICP-OES	/	Pass	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
 2. N.D.=Not Detected(less than method detection limit)
 - 3.As specified by client, only test the designated sample

2. Test Result(s) of Cd content

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-1	1-2	1-3	
Cadmium (Cd)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	100
Conclusion	ICP-OES	/	Pass	Pass	Pass	/

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Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-4	1-5	1-6	
Cadmium (Cd)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	100
Conclusion	ICP-OES	/	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-7	1-8	1-9	
Cadmium (Cd)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	100
Conclusion	ICP-OES	/	Pass	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
 2. N.D.=Not Detected(less than method detection limit)
 3. As specified by client, only test the designated sample

3. Test Result(s) of phthalates content

Unit: %, w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)	Limit
			1-9	
Dibutyl phthalate (DBP)	EN 14372:2004 GC-MS	0.01	N.D.	0.1
Butylbenzyl phthalate (BBP)		0.01	N.D.	0.1
Di-(2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.01	N.D.	0.1
Sum of DBP+BBP+DEHP+DIBP		—	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	-
Di-isononyl phthalate (DINP)		0.01	N.D.	-
Di-isodecyl phthalate (DIDP)		0.01	N.D.	-
Sum of DNOP+DINP+DIDP		—	N.D.	0.1
Conclusion		/	Pass	/

- Note:** 1. 0.1%,w/w =1000mg/kg

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2. MDL=method detection limit
3. N.D.=not detected (less than method detection limit)
4. “—”=Not regulated
5. As specified by client, only test the designated sample

4. Test Result(s) of AZO:

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			1-1	1-2	1-3	1-4	
4-Aminobiphenyl	EN ISO 14362-1:2017 EN ISO 14362-3:2017 GC-MS	5	N.D.	N.D.	N.D.	N.D.	30
Benzidine		5	N.D.	N.D.	N.D.	N.D.	30
4-Chloro-o-Toluidine		5	N.D.	N.D.	N.D.	N.D.	30
2-Naphthylamine		5	N.D.	N.D.	N.D.	N.D.	30
o-Aminoazotoluene		5	N.D.	N.D.	N.D.	N.D.	30
5-Nitro-o-toluidine		5	N.D.	N.D.	N.D.	N.D.	30
4-Chloroaniline		5	N.D.	N.D.	N.D.	N.D.	30
4-Methoxy-m-phenylenediamine		5	N.D.	N.D.	N.D.	N.D.	30
4,4'-Diaminodiphenylmethane		5	N.D.	N.D.	N.D.	N.D.	30
3,3'-Dichlorobenzidine		5	N.D.	N.D.	N.D.	N.D.	30
3,3'-Dimethoxybenzidine		5	N.D.	N.D.	N.D.	N.D.	30
3,3'-Dimethylbenzidine		5	N.D.	N.D.	N.D.	N.D.	30
4,4'-Methylenedi-o-toluidine		5	N.D.	N.D.	N.D.	N.D.	30
p-Cresidine		5	N.D.	N.D.	N.D.	N.D.	30
4,4'-Methylene-bis-(2-chloro-aniline)		5	N.D.	N.D.	N.D.	N.D.	30
4,4'-Oxydianiline		5	N.D.	N.D.	N.D.	N.D.	30
4,4'-Thiodianiline		5	N.D.	N.D.	N.D.	N.D.	30
o-Toluidine		5	N.D.	N.D.	N.D.	N.D.	30
4-Methyl-m-phenylenediamine		5	N.D.	N.D.	N.D.	N.D.	30
2,4,5-Trimethylaniline		5	N.D.	N.D.	N.D.	N.D.	30
o-Anisidine		5	N.D.	N.D.	N.D.	N.D.	30
4-Amino azobenzene		5	N.D.	N.D.	N.D.	N.D.	30
2,4-Xylidine		5	N.D.	N.D.	N.D.	N.D.	30
2,6-Xylidine		5	N.D.	N.D.	N.D.	N.D.	30
Conclusion			/	Pass	Pass	Pass	Pass

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Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			1-5	1-6	1-7	1-8	
4-Aminobiphenyl	EN ISO 14362-1:2017 EN ISO 14362-3:2017 GC-MS	5	N.D.	N.D.	N.D.	N.D.	30
Benzidine		5	N.D.	N.D.	N.D.	N.D.	30
4-Chloro-o-Toluidine		5	N.D.	N.D.	N.D.	N.D.	30
2-Naphthylamine		5	N.D.	N.D.	N.D.	N.D.	30
o-Aminoazotoluene		5	N.D.	N.D.	N.D.	N.D.	30
5-Nitro-o-toluidine		5	N.D.	N.D.	N.D.	N.D.	30
4-Chloroaniline		5	N.D.	N.D.	N.D.	N.D.	30
4-Methoxy-m-phenylenediamine		5	N.D.	N.D.	N.D.	N.D.	30
4,4'-Diaminodiphenylmethane		5	N.D.	N.D.	N.D.	N.D.	30
3,3'-Dichlorobenzidine		5	N.D.	N.D.	N.D.	N.D.	30
3,3'-Dimethoxybenzidine		5	N.D.	N.D.	N.D.	N.D.	30
3,3'-Dimethylbenzidine		5	N.D.	N.D.	N.D.	N.D.	30
4,4'-Methylenedi-o-toluidine		5	N.D.	N.D.	N.D.	N.D.	30
p-Cresidine		5	N.D.	N.D.	N.D.	N.D.	30
4,4'-Methylene-bis-(2-chloro-aniline)		5	N.D.	N.D.	N.D.	N.D.	30
4,4'-Oxydianiline		5	N.D.	N.D.	N.D.	N.D.	30
4,4'-Thiodianiline		5	N.D.	N.D.	N.D.	N.D.	30
o-Toluidine		5	N.D.	N.D.	N.D.	N.D.	30
4-Methyl-m-phenylenediamine		5	N.D.	N.D.	N.D.	N.D.	30
2,4,5-Trimethylaniline		5	N.D.	N.D.	N.D.	N.D.	30
o-Anisidine		5	N.D.	N.D.	N.D.	N.D.	30
4-Amino azobenzene		5	N.D.	N.D.	N.D.	N.D.	30
2,4-Xylidine		5	N.D.	N.D.	N.D.	N.D.	30
2,6-Xylidine	5	N.D.	N.D.	N.D.	N.D.	30	
Conclusion		/	Pass	Pass	Pass	Pass	/

Note:

- 1.MDL=method detection limit
- 2.N.D.=not detected (less than method detection limit)
- 3.As specified by client, only test the designated sample
4. The EN ISO 14362-1:2017 methods will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine, therefore, the test method of EN ISO 14362-3:2017 was employed to verify the presence of 4-aminoazobenzene

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5. Test Results of Color fastness to rubbing

Item	Test method	Result						Client's Limit
		1-1		1-2		1-3		
Color fastness to rubbing (Grade)	ISO 105-X12-2016	wet	dry	wet	dry	wet	dry	/
		4-5	4-5	4-5	4-5	4-5	4-5	2-3
Conclusion		Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Test method	Result						Client's Limit
		1-4		1-5		1-6		
Color fastness to rubbing (Grade)	ISO 105-X12-2016	wet	dry	wet	dry	wet	dry	/
		4-5	4-5	4-5	4-5	4-5	4-5	2-3
Conclusion		Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Test method	Result				Client's Limit
		1-7		1-8		
Color fastness to rubbing (Grade)	ISO 105-X12-2016	wet	dry	wet	dry	/
		4-5	4-5	4-5	4-5	2-3
Conclusion		Pass	Pass	Pass	Pass	/

Note:

- Color fastness grade: grey scale (5 grade is good, 1 grade is bad).

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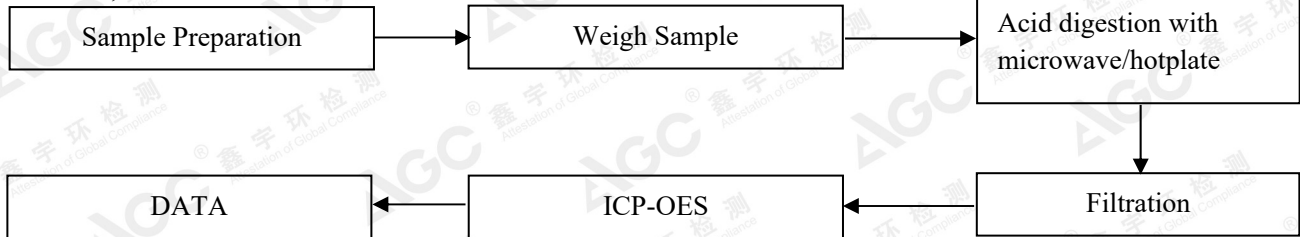
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Sample Description

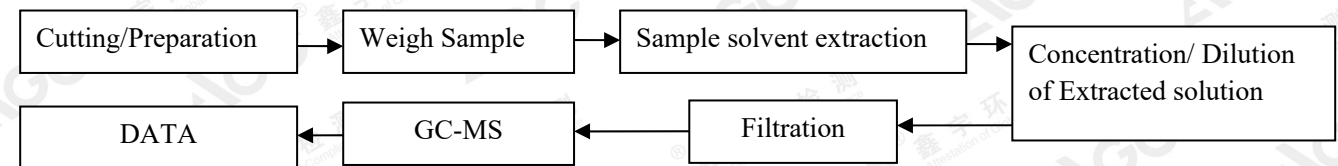
1-1	Black cloth
1-2	White cloth
1-3	Red cloth
1-4	Orange cloth
1-5	Blue cloth
1-6	Green cloth
1-7	Dark blue cloth
1-8	Black rope
1-9	Black plastic buckle

Test Flow Chart

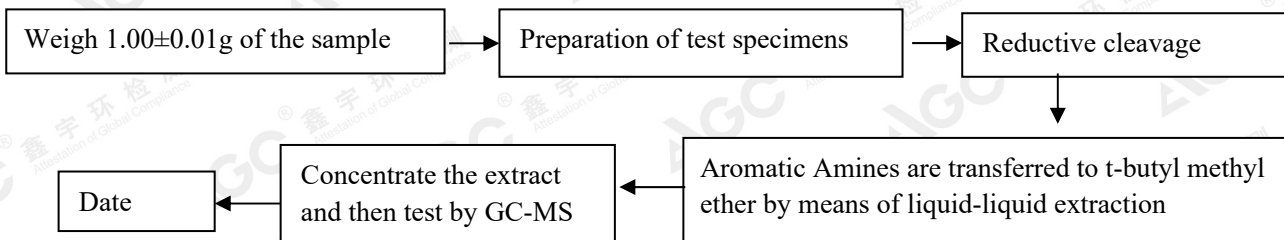
1. For Pb, Cd



2. For phthalates



3. For AZO



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The photo of the sample



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*** End of Report***

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