



CTS

CENTRE OF TESTING SERVICE

TEST REPORT

No.: C3191031063-CO

DATE: Oct. 31, 2019

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APPLICANT:

MID OCEAN BRANDS B.V.

7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

DESCRIPTION OF SAMPLES:

Sample Name : NON WOVEN BAG W/5PCS MARKERS
 Model No. : MO9887
 Brand Name : /
 Manufacturer Name : 111041
 Buyer Name : /
 Country of Origin : /
 Country of Destination : /
 Sample Receiving Date : Oct. 22, 2019
 Testing Period : Oct. 22, 2019 to Oct. 28, 2019
 Test Requested : Please refer to next page(s)
 Test Method : Please refer to next page(s)
 Test Results : Please refer to next page(s)

CONCLUSION:

Tested Samples	Test Requested	Conclusion
Tested Component of Submitted Sample	AZO Compounds Content	PASS
	Lead Content	PASS
	Cadmium Content	PASS
	Benzene Content	PASS
	Polycyclic Aromatic Hydrocarbon (PAHs) Content	PASS
	Phthalates Content	PASS

Note: The tested part of the sample was specified by client.
 The test conclusion was given based on the results of tested part.

Authorized by: CTS (Ningbo) Testing Service Technology Co., Ltd.

Jane

Jane.Ye
Lab Manager



The measurement results only apply to the submitted samples.
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TEST RESULTS:

1) AZO Compounds Content

- 1) With reference to EN ISO 14362-1:2017, Analysis was performed by GC-MS.
 2) p-Aminoazobenzene: With reference to EN ISO 14362-3:2017, Analysis was performed by GC-MS.

Sample Description		Result (mg/kg)	Limit (mg/kg)
		AZO	
No.1	White non-woven cloth with black printing	N.D.	30
No.2	Black rope	N.D.	30

- Note :
1. N.D. = not detected (less than MDL)
 2. 1 mg/kg=1 ppm=0.0001%
 3. Method Detection Limit=5 mg/kg
 4. The limit refers to ANNEX XVII of the REACH Regulation (EC) No.1907/2006 & Amendment No. 552/2009 (formerly known as Directive 76/769/EEC and 2002/61/EC).
 5. List of prohibitive aromatic amines to be tested :

No.	Prohibitive Aromatic Amines	CAS NO.	No.	Prohibitive Aromatic Amines	CAS NO.
1	O-Toluidine	95-53-4	13	4-Aminobiphenyl	92-67-1
2	2,6-Xylidine	87-62-7	14	4-Aminoazobenzene	60-09-03
3	2,4-Xylidine	95-68-1	15	4,4'-oxydianiline	101-80-4
4	O-Anisidine	90-04-0	16	Benzidine	92-87-5
5	4-Chloroaniline	106-47-8	17	4,4'-methylenedianiline	101-77-9
6	P-Cresidine	120-71-8	18	O-Aminoazotoluene	97-56-3
7	2,4,5-Trimethylaniline	137-17-7	19	4,4'-methylenedi-o-toluidine	838-88-0
8	4-Chloro-o-toluidine	95-69-2	20	3,3'-Dimethylbenzidine	119-93-7
9	4-methyl-m-phenylenedia mine	95-80-7	21	4,4'-Thiodianiline	139-65-1
10	4-methoxy-m-phenylenedi amine	615-05-4	22	3,3'-Dichlorobenzidine	91-94-1
11	2-Naphthylamine	91-59-8	23	4,4'-Methylene-bis-(2-Chlor o-aniline)	101-14-4
12	5-nitro-o-toluidine	99-55-8	24	3,3'-Dimethoxybenzidine	119-90-4

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2) Lead Content

Test Item(s)	Test Method	Test Instrument	MDL
Lead (Pb)	US EPA3050B	ICP-AES	2 mg/kg

Remark: MDL= Method Detection Limit

Sample Description		Result (mg/kg)	Limit (mg/kg)
		Lead (Pb)	
No.1	White non-woven cloth with black printing	N.D.	100
No.3*	(Red/orange/yellow) plastic (mixed)	N.D.	100
No.4*	(Green/blue/white) plastic (mixed)	N.D.	100
No.5*	(Red/orange/yellow) ink (mixed)	N.D.	100
No.6*	(Green/blue) ink/refill (mixed)	N.D.	100

- Note :
- 1 mg/kg = 1 ppm = 0.0001%
 - N.D. = not detected (less than 2 mg/kg)
 - The limit refers to ANNEX XVII of the REACH Regulation (EC) No.1907/2006 & Amendment No. 552/2009 (formerly known as Directive 76/769/EEC).
 - *The Testing results are based on the mixing of the sample which applicant required.

3) Cadmium Content

With reference to EN1122:2001B.

Sample Description		Result (mg/kg)	Limit (mg/kg)
		Cadmium (Cd)	
No.1	White non-woven cloth with black printing	N.D.	100
No.3*	(Red/orange/yellow) plastic (mixed)	N.D.	100
No.4*	(Green/blue/white) plastic (mixed)	N.D.	100
No.5*	(Red/orange/yellow) ink (mixed)	N.D.	100
No.6*	(Green/blue) ink/refill (mixed)	N.D.	100

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- Note :
- 1mg/kg=1ppm=0.0001%
 - N.D. = not detected (less than 2 mg/kg)
 - The limit refers to ANNEX XVII of the REACH Regulation (EC) No.1907/2006 & Amendment No. 552/2009 (formerly known as Directive 91/338/EEC).
 - *The Testing results are based on the mixing of the sample which applicant required.

4) Benzene Content

With reference to EPA 3550C:2007, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Sample Description		Result (mg/kg)	MDL	Limit
		Benzene	(mg/kg)	(mg/kg)
No.1	White non-woven cloth with black printing	N.D.	5	5
No.3*	(Red/orange/yellow) plastic (mixed)	N.D.	5	5
No.4*	(Green/blue/white) plastic (mixed)	N.D.	5	5
No.7	Refill	N.D.	5	5

- Note :
1. N.D.=Not Detected (less than MDL)
 - 1mg/kg=1ppm=0.0001%
 - MDL= Method Detect Limit
 - The limit refers to ANNEX XVII of the REACH Regulation (EC) No.1907/2006 & Amendment No. 552/2009
 - *The Testing results are based on the mixing of the sample which applicant required.

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5) Polycyclic Aromatic Hydrocarbon (PAHs) Content

With reference to EPA 3540C and EPA 8270D: Solvent extraction, followed by analysis using Gas Chromatography-Mass Spectrometry

Sample Description	No.1	White non-woven cloth with black printing			
	No.3*	(Red/orange/yellow) plastic (mixed)			
	No.4*	(Green/blue/white) plastic (mixed)			
Compounds	CAS Number	Result (mg/kg)			Maximum permissible limit (mg/kg)
		No.1	No.3*	No.4*	
(1) Benz(a)anthracene (BaA)	56-55-3	N.D.	N.D.	N.D.	<0.5
(2) Chrysene (CHR)	218-01-9	N.D.	N.D.	N.D.	<0.5
(3) Benzo(b)fluoranthene (BbF)	205-99-2	N.D.	N.D.	N.D.	<0.5
(4) Benzo(k)fluoranthene (BkF)	207-08-9	N.D.	N.D.	N.D.	<0.5
(5) Benzo(a)pyrene (BaP)	50-32-8	N.D.	N.D.	N.D.	<0.5
(6) Dibenz(a,h)anthracene (DBA)	53-70-3	N.D.	N.D.	N.D.	<0.5
(7) Benzo(j)fluoranthene (BjF)	205-82-3	N.D.	N.D.	N.D.	<0.5
(8) Benzo(e)pyrene (BeP)	192-97-2	N.D.	N.D.	N.D.	<0.5

- Note :
- 1 mg/kg=1 ppm=0.0001%.
 - Method detection limit of each of the individual compound is 0.1 mg/kg.
 - N.D. = not detected (less than MDL).
 - The limit refers to ANNEX XVII of the REACH Regulation (EC) No.1907/2006 & Amendment No. 552/2009 (REGULATION (EU) No 1272/2013).
 - *The Testing results are based on the mixing of the sample which applicant required.

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6) Phthalates Content

With reference to EPA 3540C and EPA 8270D: Solvent extraction, followed by analysis using Gas Chromatography-Mass Spectrometry

Sample Description		Result (%)				Total (%)	Maximum Allowable Limit (%)
		DEHP	DBP	BBP	DIBP		
No.1	White non-woven cloth with black printing	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
No.3*	(Red/orange/yellow) plastic (mixed)	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
No.4*	(Green/blue/white) plastic (mixed)	N.D.	N.D.	N.D.	N.D.	N.D.	0.1

Sample Description		Result (%)			Total (%)	Maximum Allowable Limit (%)
		DINP	DNOP	DIDP		
No.1	White non-woven cloth with black printing	N.D.	N.D.	N.D.	N.D.	0.1
No.3*	(Red/orange/yellow) plastic (mixed)	N.D.	N.D.	N.D.	N.D.	0.1
No.4*	(Green/blue/white) plastic (mixed)	N.D.	N.D.	N.D.	N.D.	0.1

- Note :
1. N.D.=Not Detected (<MDL)
 2. 1mg/kg=1ppm=0.0001%
 3. The limit refers to ANNEX XVII of the REACH Regulation (EC) No.1907/2006 & Amendment (EU) 2018/2005.
 4. *The Testing results are based on the mixing of the sample which applicant required.
 5. The method detect limit for each Phthalates are:

Method Detect Limit		
Phthalates	DEHP (Di- (2-ethylhexyl)phthalate)	0.005%
	DBP (Dibutyl phthalate)	0.005%
	BBP (Benzyl butyl phthalate)	0.005%
	DIBP (Di-isobutyl phthalate)	0.005%
	DINP (Di-isononyl phthalate)	0.005%
	DNOP (Di-n-octyl phthalate)	0.005%
	DIDP (Di-isodecyl phthalate)	0.005%

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SAMPLE REFERENCE PHOTO:



End of Report

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