

# CTS

## **TEST REPORT**

No.: C3190701025-CO

DATE: Jul. 11, 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.	:	MO8922
Brand Name	:	1
Manufacturer Name	:	111041
Buyer Name	:	1
Country of Origin	:	1
Country of Destination	:	1
Sample Receiving Date	:	Jul. 2, 2019
Testing Period	:	Jul. 2, 2019 to Jul. 11, 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	Remark
	AZO Compounds Content	Pass	-
	Cadmium Content	Pass	-
Tested Component	Benzene Content	Pass	-
of Submitted Sample	Polycyclic Aromatic Hydrocarbon (PAHs) Content	Pass	-
	Phthalates Content	Pass	-
	Colourfastness to Rubbing	-	See Result

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.



Lab Manager

Jane.Ye

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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) AZO	Limit (mg/kg)
No.1 White non-woven cloth with black printing		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) Cadmium Content

With reference to EN1122:2001B.

	Sample Description	Result (mg/kg)	Limit (ma/ka)
	Sample Description	Cadmium (Cd)	Limit (mg/kg)
No.1	White non-woven cloth with black printing	N.D.	100
No.2*	(Red/orange/yellow) plastic (mixed)	N.D.	100
No.3*	(Green/blue/white) plastic (mixed)	N.D.	100
No.4*	(Red/orange/yellow) ink (mixed)	N.D.	100
No.5*	(Green/blue) ink/refill (mixed)	N.D.	100

Note

- : 1. 1mg/kg=1ppm=0.0001%
  - 2. N.D. = not detected (less than 2 mg/kg)
  - 3. 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).
  - 4. \*The Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

#### 3) Benzene Content

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

	Somple Description	Result (mg/kg)	MDL	Limit
	Sample Description	Benzene	(mg/kg)	(mg/kg)
No.1	White non-woven cloth with black printing	N.D.	5	5
No.2*	(Red/orange/yellow) plastic (mixed)	N.D.	5	5
No.3*	(Green/blue/white) plastic (mixed)	N.D.	5	5
No.4	Refill	N.D.	5	5

Note

- : 1. N.D.=Not Detected (less than MDL)
  - 2. 1mg/kg=1ppm=0.0001%
  - 3. MDL= Method Detect Limit
  - 4. The limit refers to ANNEX XVII of the REACH Regulation (EC) No.1907/2006 & Amendment No. 552/2009





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5. \*The Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

### 4) Polycyclic Aromatic Hydrocarbon (PAHs) Content

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

	No.1	White	non-woven	cloth with b	lack printing		
Sample Description	No.2*	(Red/orange/yellow) plastic (mixed)					
	No.3*	(0	Green/blue/v	vhite) plastic	(mixed)		
	CAS	R	esult (mg/k	g)	Maximum		
Compounds	Number	No.1	No.2*	No.3*	permissible		
	Number	INO. I	INU.Z	N0.5	limit (mg/kg)		
(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. 1 mg/kg=1 ppm=0.0001%.

- 2. Method detection limit of each of the individual compound is 0.1 mg/kg.
- 3. N.D. = not detected (less than MDL).
- 4. The limit refers to ANNEX XVII of the REACH Regulation (EC) No.1907/2006 & Amendment No. 552/2009 (REGULATION (EU) No 1272/2013).
- 5. \*The Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.





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#### 5) Phthalates Content

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

	Sample Description		Resu	lt (%)	Total	Maximum	
			DBP	BBP	DIBP	(%)	Allowable Limit (%)
No.1	White non-woven cloth with black printing	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
No.2*	(Red/orange/yellow) plastic (mixed)	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
No.3*	(Green/blue/white) plastic (mixed)	N.D.	N.D.	N.D.	N.D.	N.D.	0.1

			Result (%)	Total	Maximum	
Sample Description		DINP	DNOP	DIDP	(%)	Allowable Limit (%)
No.1	White non-woven cloth with black printing	N.D.	N.D.	N.D.	N.D.	0.1
No.2*	(Red/orange/yellow) plastic (mixed)	N.D.	N.D.	N.D.	N.D.	0.1
No.3*	(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 No. 552/2009 (formerly known as Directive 2005/84/EC).
  - 4. \*The Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.
  - 5. The method detect limit for each Phthalates are:

Method Detect Limit		
	DEHP (Di- (2-ethylhexyl)phthalate)	0.005%
	DBP (Dibutyl phthalate)	0.005%
	BBP (Benzyl butyl phthalate)	0.005%
Phthalates	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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#### 6) Colourfastness to Rubbing

(BS EN IS	O 105-X12:2016)
	0 100 /12.2010)

	No.1
	White non-woven cloth with black printing
Length	
Dry	4
Wet	1-2
Width	
Dry	3-4
Wet	1-2

#### COLOURFASTNESS RATING

- GRADE 5 NEGLIGIBLE OR NO CHANGE OR STAINING
- GRADE 4 SLIGHTLY CHANGED OR STAINED
- GRADE 3 NOTICEABLY CHANGED OR STAINED
- GRADE 2 CONSIDERABLY CHANGED OR STAINED
- GRADE 1 MUCH CHANGED OR STAINED



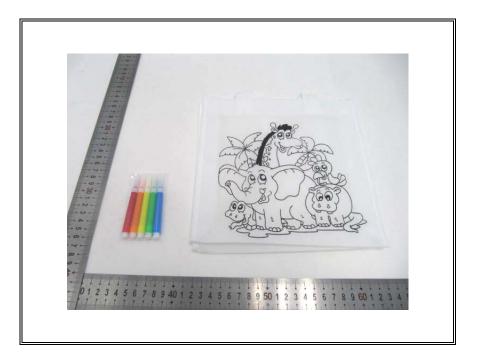


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## **SAMPLE REFERENCE PHOTO:**



\*\*\*End of Report\*\*\*