



TEST REPORT

Reference No. : WTF20F01002938C

Applicant : Mid Ocean Brands B.V.

Address : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,

Hong Kong

 Manufacturer
 : 105307

 Sample Name
 : PVC bag

 Model No.
 : IT2558

Test Method: Please refer to next page (s)

Test Conclusion: Please refer to next page (s)

Date of Receipt sample....: 2020-01-13

Date of Test...... 2020-01-13 to 2020-01-17

Date of Issue : 2020-01-17

Test Result: Please refer to next page (s)

Remarks:

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Test Requested.....:

- 1) 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
- 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
- 3) Determination of specified Phthalates content according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & No. 2018/2005
- 4) 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 & No.126/ 2013 (previously restricted under Directive 2002/61/EC).
- 5) Determine the Tris (2,3-dibromopropyl) phosphate (TDBPP) content in the submitted sample in according to Annex XVII Items 4 of the REACH Regulation (EC) No.1907/2006.
- 6) Determine the Tris (aziridinyl) phosphinoxide (TEPA) content in the submitted sample in according to Annex XVII Items 7 of the REACH Regulation (EC) No.1907/2006.





Test Result:

1) Lead (Pb)

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

Test Item	MDL	MDL Results (mg/kg)		
	(mg/kg)	No.1	No.2+No.3+No.6	(mg/kg)
Lead(Pb)	1 2 m	ND	ND*	500
Conclusion	_	Pass	Pass	411 - 411

Test Item	MDL	Results	→ Limit →	
	(mg/kg)	No.4	No.5	(mg/kg)
Lead(Pb)	2	ND W	ND	500
Conclusion	- +	Pass	Pass	vr mr - m

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than MDL)
- (3) MDL = Method Detection Limit
- (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.

2) Cadmium (Cd)

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

Test Item	MDL (mg/kg)	Results (mg/kg)			
		No.1	No.4		
Cadmium(Cd)	2	ND MITE UNI	An An ND An An		
Conclusion	"MULL" MULL	Pass	Pass		

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than MDL)
- (3) MDL = Method Detection Limit
- (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



3) Phthalates

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

Test Items	MDL (%)	Results (%) No.4	Limit (%)
Benzyl butyl phthalate (BBP)	0.005	ND W	Mus Me M
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND - ND	sum of four
Dibutyl phthalate (DBP)	0.005	WD WD	phthalates < 0.1
Diisobutyl phthalate (DIBP)	0.005	ND NO	urit auri au
Diisodecyl phthalate (DIDP)	0.01	ND	CEX SEX SIFEK OUT
Diisononyl phthalate (DINP)	0.01	ND	sum of three phthalates < 0.1
Di-n-octyl phthalate (DNOP)	0.005	L ND	primates < 0.1
Conclusion	JALIE WALL	Pass	1 1 - 1 th

Note:

DBP= Dibutyl phthalate
DINP= Di-isononyl phthalate
DIBP= Diisobutyl phthalate
DIBP= Diisobutyl phthalate
DIBP= Diisobutyl phthalate
DIBP= Diisobutyl phthalate

- (1) % = percentage by weight
- (2) ND = Not detected or Less than the method detection limit
- (3) MDL=Method Detection Limit
- (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.

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4) 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)	
IVO.			(mg/kg)	No.5	
1,1	4-Aminobiphenyl	92-67-1	30	ND ND	
2	Benzidine	92-87-5	30	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	30	ND	
6	2-Amino-4-nitrotoluene	99-55-8	30	ND	
7	p-Chloroaniline	106-47-8	30	ND W	
8	2,4-diaminoanisol	615-05-4	30	ND	
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND OF	
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 W	
14	p-cresinin	120-71-8	30	ND	
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND ND	
16	4,4'-Oxydianiline	101-80-4	30	ND	
17	4,4'-Thiodianiline	139-65-1	30	IT ND NO.	
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 NO	
22	4-aminoazobenzene	60-09-3	30	ND	
23	2,4-Xylidin	95-68-1	30	ND ND	
24	2,6-Xylidin	87-62-7	30	ND	
Wr.	Conclusion	18t - 18t		Pass	

Note:

- ND = Not detected or less than the method detection limit
- mg/kg=Milligram per kilogram
- Method Detection Limit (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



5) TDBPP

Test Method: With reference to EPA 3550C:2007, analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) and Liquid Chromatography Mass Spectrometer (LCMS)

et liet witer writer white w	CAS No.	Unit	Result	MDL	Limit
Test Item			No.4		
Tris (2,3 dibromopropyl) phosphate (TDBPP)*	126-72-7	mg/kg	Tet ND Tet MINI	5	ND
Conclusion	Murit M	- 10	Pass		J. J. G.

Note:

- (1) mg/kg =milligram per kilogram= ppm
- (2) ND = Not detected or lower the method detection limit
- (3) MDL=Method Detection Limit
- (4) The testing item marked with "" does not been accredited by CNAS

6) TEPA

Test Method: With reference to EPA 3550C:2007, analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) and Liquid Chromatography Mass Spectrometer (LCMS)

- SLIEF WILE AND MALLE	CAS No.	Unit	Result	MDIC	Limit
Test Item			No.4	MDL	
Tris(aziridinyl)phosphinoxide (TEPA)*	545-55-1	mg/kg	ND 100 ND	5	ND .
Conclusion	White - My	-0/2	Pass	- - 	TEX-

Note:

- (1) mg/kg =milligram per kilogram= ppm
- (2) ND = Not detected or lower the method detection limit
- (3) MDL=Method Detection Limit
- (4) The testing item marked with "" does not been accredited by CNAS

Test Specimen Description:

No.1: Pink plastic zipper tooth

No.2: Silvery metal zipper head

No.3: Silvery metal zipper puller

No.4: Pink plastic bag

No.5: Pink zipper fabric

No.6: Silvery metal rivet

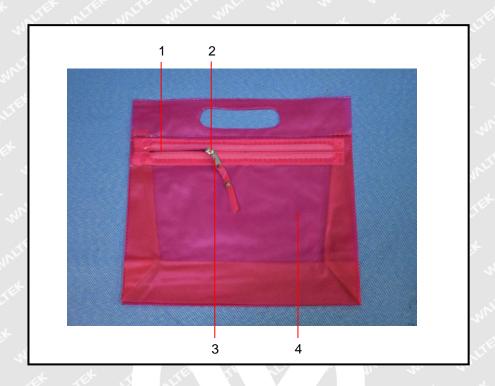


Sample photo:





Photographs of parts tested:





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