



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Reference No. : WTF19F02009310C

Applicant : Mid Ocean Brands B.V.

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

Manufacturer : 113086

Sample Name : Tritan bottle

Model No. : MO8308

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
2) 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
4) As specified by applicant, to determine Bisphenol A content in the submitted sample

Test Method : Please refer to next page (s)

Test Conclusion : Please refer to next page (s)

Date of Receipt sample : 2019-02-25

Date of Test : 2019-02-25 to 2019-03-01

Date of Issue : 2019-03-01

Test Result : Please refer to next page (s)

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of reporter and reviewer.

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**Test Result:****1) Lead (Pb)**

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

Test Item	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		No.1+No.4+No.5	
Lead(Pb)	2	ND*	500
Conclusion	--	Pass	--

Test Item	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		No.2+No.3	
Lead(Pb)	2	ND*	500
Conclusion	--	Pass	--

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) "*" = As per applicant's requirement, the testing was conducted based on mixed components, the test result is for reference only

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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+No.5	No.2+No.3
Cadmium(Cd)	2	ND*	ND*
Conclusion	--	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

- (5) "*" = As per applicant's requirement, the testing was conducted based on mixed components, the test result is for reference only

3) Phthalates

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

Test Items	BBP	DBP	DEHP	DIDP	DINP	DNOP	--
MDL (%)	0.005	0.005	0.005	0.01	0.01	0.005	--
Limit (%)	sum of three phthalates < 0.1			sum of three phthalates < 0.1			--
Specimen No.	Result (%)						Conclusion
No.1+No.4+No.5	ND*	ND*	0.009*	ND*	0.010*	ND*	Pass
No.2+No.3	ND*	ND*	0.007*	ND*	0.011*	ND*	Pass

Note:

DBP= Dibutyl phthalate

BBP= Benzyl butyl phthalate

DEHP= Bis-(2-ethylhexyl)- phthalate

DINP= Di-isononyl phthalate

DNOP= Di-n-octyl phthalate

DIDP= Di-isodecyl 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(formerly known as Directive 2005/84/EC) for phthalate content in toys and child care articles.
- (6) "*" = As per applicant's requirement, the testing was conducted based on mixed components, the test result is for reference only

**4) BPA**

Test Method: With reference to EPA3550C:2007, by solvent extraction and follow by Liquid Chromatographic / Tandem Mass spectrometer (LC/MS/MS) analysis.

Test Item	Unit	MDL	Result		Client's Limit
			No.1	No.2	
Bisphenol A*	mg/kg	0.05	ND	ND	0.05
Conclusion	--	--	Pass	Pass	--

Test Item	Unit	MDL	Result		Client's Limit
			No.3	No.4	
Bisphenol A*	mg/kg	0.05	ND	ND	0.05
Conclusion	--	--	Pass	Pass	--

Test Item	Unit	MDL	Result		Client's Limit
			No.5		
Bisphenol A*	mg/kg	0.05	ND		0.05
Conclusion	--	--	Pass		--

Note:

- (1) ND = Not Detected (less than MDL)
- (2) MDL= Method Detection Limit
- (3) mg/kg= Milligram per kilogram
- (4) The testing item marked with '*' does not been accredited by CNAS

Test Specimen Description:

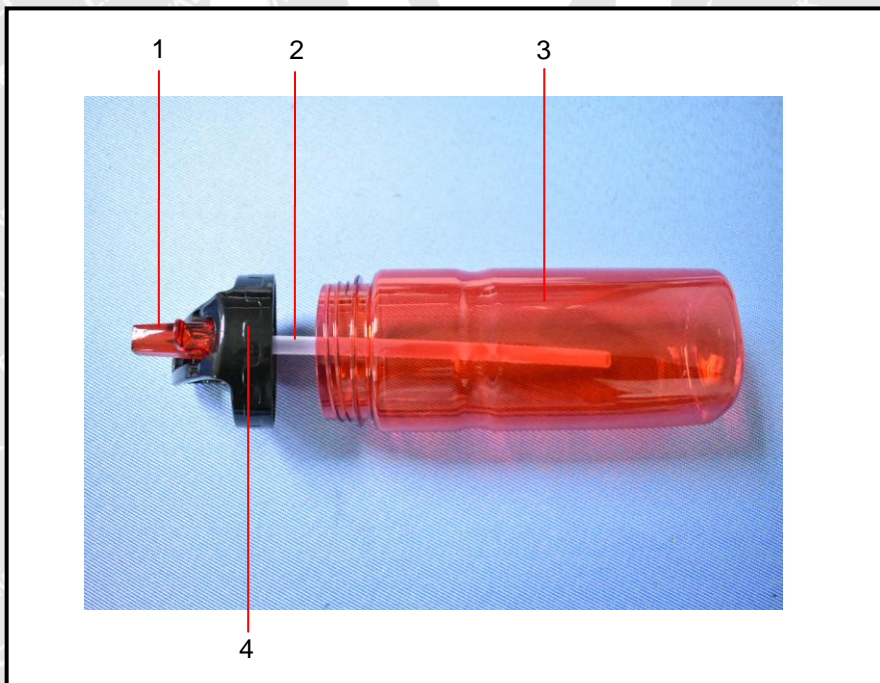
- No.1: Red plastic nozzle
 No.2: Transparent plastic straw
 No.3: Red transparent plastic bottle
 No.4: Black plastic lid
 No.5: White soft plastic ring

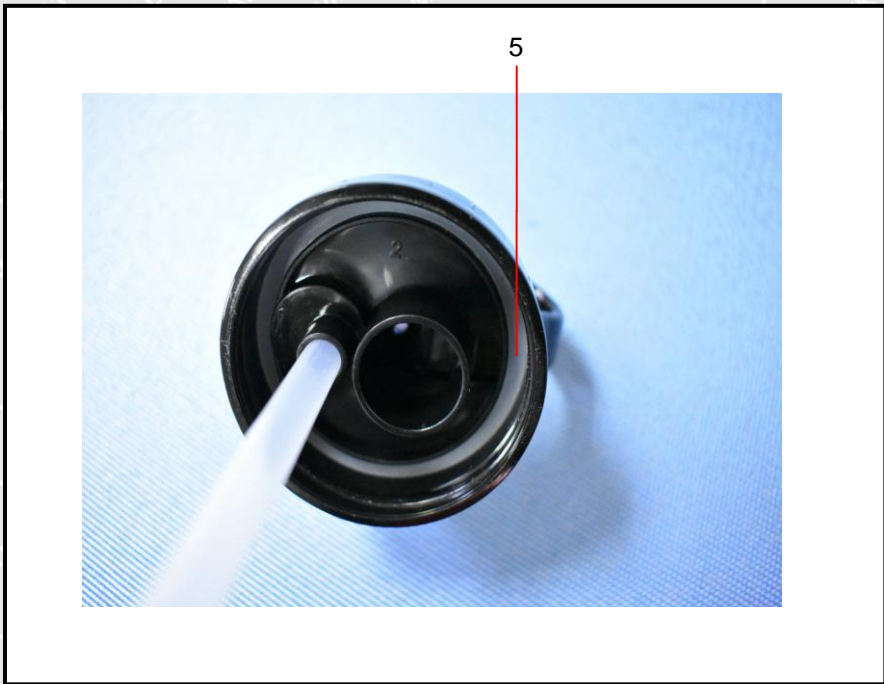


Sample photo:



Photographs of parts tested:





==== End of Report ====

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