

Test Report

Number: SHAH01689700

Applicant: MID OCEAN BRANDS B.V.
7/F, KINGS TOWER, 111 KING LAM STREET, CHEUNG SHA
WAN, KOWLOON, HONG KONG.

Date: 09 Jul, 2024

Sample Description:

One (1) piece of submitted sample said to be :

Item Name : Hot water bottle
Item No. : CX1360
Country Of Origin : China.
Vendor Code : 112442

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Prepared And Checked By:
For Intertek Testing Services Wuxi Ltd.



Bill Zhang
General Manager



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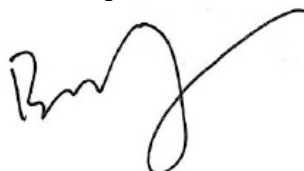
Conclusion:

Tested Sample	Standard	Result
Tested Components Of Submitted Samples	Lead content requirement in Commission Regulation (EU) 2015/628 of 22 April 2015 Amending Annex XVII item 63 of the REACH Regulation (EC) No. 1907/2006	Pass
Tested Components Of Submitted Samples	Cadmium content requirement in Commission Regulation (EU) No. 494/2011 of 20 May 2011, (EU) No. 835/2012 of 18 September 2012 and (EU) No. 2016/217 of 16 February 2016 Amending Annex XVII Items 23 of the Reach Regulation (EC) No. 1907/2006	Pass
Tested Components Of Submitted Samples	Phthalates content requirement in Annex XVII Item 51&52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 (formerly known as Directive 2005/84/EC)	Pass
Tested Components Of Submitted Samples	Polycyclic Aromatic Hydrocarbons (PAHs) content in Annex XVII Item 50 of the REACH Regulation (EC) No. 1907/2006 & amendment (EU) No. 1272/2013	Pass
Tested Components Of Submitted Samples	Azocolourants content requirement In Annex XVII Item 43 of the REACH Regulation (EC) No. 1907/2006 & Amendment (EC) No. 552/2009 and (EU) 2020/2096	Pass (See Comment)
Submitted Samples	Reference to BS 1970: 2012 – Hot Water Bottles Manufactured From Rubber And PVC – Specification	Pass

Comment:

The testing scope of the standard was not applicable to the submitted component. However, the test results of the component met the requirement as stated in this report.

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1 Lead (Pb) Content

With reference to method IEC 62321-5:2013, microwave digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Component</u>	<u>Result (%)</u>	<u>Limit (%)</u>
(1)	ND	0.05
(2)	ND	0.05

Remark: ND = Not Detected (Less than detection limit)
Detection Limit = 0.001%

Tested Components: See component list in the last section of this report.

Date Sample Received: 13 May, 2024 & 04 Jul, 2024
Testing Period: 13 May, 2024 To 28 Jun, 2024; 04 Jul, 2024 To 08 Jul, 2024

2 Cadmium (Cd) Content

With reference to methods IEC 62321, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Component</u>	<u>Result in %</u>
(1)	ND

Requirement:	
<u>Category</u>	<u>Limit (%)</u>
Painted article	0.1
Plastic	0.01
Metal parts of jewellery & hair accessories	0.01

Remark: ND = Not Detected (<0.0005%)

Tested Components: See component list in the last section of this report.

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Tests Conducted

3 Phthalate Content

With reference to ISO 8124-6: 2018, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

I. Annex XVII Item 51

Test Item	CAS No.	Result (%w/w)	Reporting Limit	Limit
		(1)	(%w/w)	(%w/w)
Dibutyl phthalate (DBP)	84-74-2	ND	0.005	-
Diethyl hexyl phthalate (DEHP)	117-81-7	0.036	0.005	-
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.005	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.005	-
Sum of DBP, DEHP, BBP and DIBP	-	0.036	-	0.1

The above limit was quoted according to Annex XVII Item 51 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 for phthalate content in articles.

II. Annex XVII Item 52

Test Item	CAS No.	Result (%w/w)	Reporting Limit	Limit
		(1)	(%w/w)	(%w/w)
Di-n-octyl phthalate (DnOP)	117-84-0	ND	0.005	-
Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	0.005	-
Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	0.005	-
Sum of DINP, DNOP and DIDP	-	ND	-	0.1

The above limit was quoted according to Annex XVII Item 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 for phthalate content in toys and childcare articles.

Remark: ND = Not Detected(Less than reporting limit)

Tested Components: See component list in the last section of this report.

Date Sample Received: 13 May, 2024

Testing Period: 13 May, 2024 To 28 Jun, 2024



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Tests Conducted

4 Polycyclic Aromatic Hydrocarbons (PAHs) Content

With reference to AfPS GS 2019:01 PAK, by solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Toy for children/children care articles / Other articles (Non-Toy for children/Non-children care articles):

<u>Test Item</u>	<u>Result (mg/kg)</u>	<u>Requirement (mg/kg)</u>
	(1)	(Max.)
Benzo(a)pyrene	ND	1
Benzo(e)pyrene	ND	1
Benzo(a)anthracene	ND	1
Chrysene	ND	1
Benzo(b)fluoranthene	ND	1
Benzo(j)fluoranthene	ND	1
Benzo(k)fluoranthene	ND	1
Dibenzo(a,h)anthracene	ND	1

Remark : The above limit was quoted according to Annex XVII Items 50 of the REACH Regulation (EC) No.1907/2006 & amendment (EU) No. 1272/2013 for Polycyclic Aromatic Hydrocarbons (PAHs).

ND = Not Detected
Detection limit = 0.2 mg/kg

Tested Components: See component list in the last section of this report.

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5 Detection of Amines Derived from Azocolourants and Azodyes:

By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis.

Test Method: With reference to EN ISO 14362-1: 2017
With reference to EN ISO 14362-3: 2017 for p-Aminoazobenzene

	Forbidden	Cas No.	Result (ppm)			
			Method T	Method D	Method T	Method D
			(1)	(1)	(2)	(2)
1.	4-Aminodiphenyl	92-67-1	N	N	N	N
2.	Benzidine	92-87-5	N	N	N	N
3.	4-Chloro-o-Toluidine	95-69-2	N	N	N	N
4.	2-Naphthylamine	91-59-8	N	N	N	N
5.	o-Aminoazotoluene	97-56-3	N	N	N	N
6.	2-Amino-4-Nitrotoluene	99-55-8	N	N	N	N
7.	p-Chloroaniline	106-47-8	N	N	N	N
8.	2,4-Diaminoanisole	615-05-4	N	N	N	N
9.	4,4'-Diaminodiphenylmethane	101-77-9	N	N	N	N
10.	3,3'-Dichlorobenzidine	91-94-1	N	N	N	N
11.	3,3'-Dimethoxybenzidine	119-90-4	N	N	N	N
12.	3,3'-Dimethylbenzidine	119-93-7	N	N	N	N
13.	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N	N	N
14.	p-Cresidine	120-71-8	N	N	N	N
15.	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	N	N	N	N
16.	4,4'-Oxydianiline	101-80-4	N	N	N	N
17.	4,4'-Thiodianiline	139-65-1	N	N	N	N
18.	o-Toluidine	95-53-4	N	N	N	N
19.	2,4-Toluylenediamine	95-80-7	N	N	N	N
20.	2,4,5-Trimethylaniline	137-17-7	N	N	N	N
21.	o-Anisidine	90-04-0	N	N	N	N
22.	p-Aminoazobenzene	60-09-3	N	N	N	N

Remark: N = Not Detected
Detection Limit = 5 ppm
Requirement = 30 ppm (Max.)
ppm = parts per million = mg/kg

Method T: Direct buffer extraction as per EN ISO 14362-1: 2017 Section 10.2
Method D: Colourant extraction with Xylene as per EN ISO 14362-1: 2017 Section 10.1

Tested Components: See component list in the last section of this report.

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6 Hot Water Bottles Manufactured From Rubber And Pvc

With reference to BS 1970: 2012 – Hot water bottles manufactured from rubber and PVC – specification, the submitted samples were subjected to the following tests:

Number of samples tested: Fourteen (14) pieces

Sample description: rubber hot water bottle

Initial inspection: No any damage was found.

Executive summary:

Clause	Testing items	Verdict
1	Scope	-
2	Normative references	-
3	Composition	P See #1
4	Physical properties	-
4.1	Visual examination	P
4.2	Thickness	P
4.3	Filling characteristics	P
5	Closures	-
5.1	General	P
5.2	Test for separation of screwed closures	P
5.3	Rubber components	NA
6	Performance	-
6.1	Leakage	P
6.2	Strength of bonded (or welded) seams	P
6.3	Pressure test	P
6.4	Tensile stress-strain properties	-
6.4.1	General	-
6.4.2	Tensile tests for rubber hot water bottles	-
6.4.2.1	Tensile stress-strain properties before ageing	P
6.4.2.2	Tensile stress-strain properties after ageing	P
6.4.2.3	Tensile stress-strain properties after immersion	P
6.4.3	Tensile tests for PVC hot water bottles	-
6.4.3.1	Tensile stress-strain properties before ageing	NA
6.4.3.2	Tensile stress-strain properties after ageing	NA
6.4.3.3	Tensile stress-strain properties after extraction	NA
6.5	Other material specific requirements	-
6.5.1	Tension set for rubber hot water bottles	P
6.5.2	Percentage mass change after extraction for PVC hot water bottles	NA
6.5.3	Creep resistance for PVC hot water bottles	NA
6.6	Tear strength	P
7	Marking	P
8	Informative labeling	-
8.1	General	P
8.2	Hot water bottles with screw stoppers	P
8.3	Hot water bottles with closures other than screw stoppers	NA
9	Packaging	NA

Abbreviation: P = Pass; F = Fail; NA = Not Applicable; NC = Not Conduct; NR = Not Requested



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Tests Conducted

#1 Toxic Elements Analysis

As per British standard on safety of toys BS EN 71-3: 1995, acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

	<u>Result in mg/kg</u>	<u>Limit mg/kg</u>
	(1)	
Sol. Barium (Ba)	<5	1000
Sol. Lead (Pb)	<5	90
Sol. Cadmium (Cd)	<5	75
Sol. Antimony (Sb)	<5	60
Sol. Selenium (Se)	<5	500
Sol. Chromium (Cr)	<5	60
Sol. Mercury (Hg)	<5	60
Sol. Arsenic (As)	<2.5	25

Remark: Sol. = soluble

Tested Components: See component list in the last section of this report.

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Tests Conducted



Picture 1



Picture 2: Marking



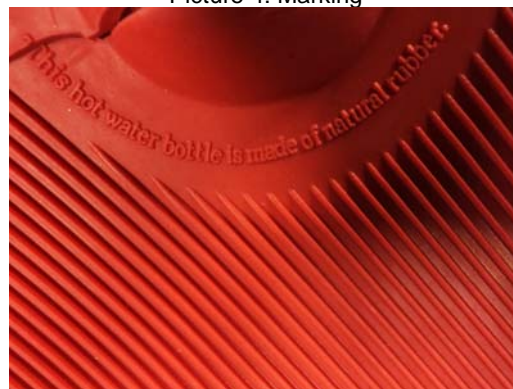
Picture 3: Marking



Picture 4: Marking



Picture 5: Marking



Picture 6: Marking

Date Sample Received: 13 Jun, 2024

Testing Period: 13 Jun, 2024 to 26 Jun, 2024

This Test Was Conducted By Intertek Testing Services Ltd., Shanghai Excluding clause 3 Composition.



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7 Colour Fastness To Rubbing (EN ISO 105 X12-2016)

	(1)	(2)
Dry	4	4-5
Wet	4	4-5

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best.

Tested Components: See Component List In The Last Section Of This Report.

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Tests Conducted

Photo



Components List:

- (1) Red Soft Plastic.
- (2) Red/White Knitted Fabric(Cover).

End Of Report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) received and tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek Testing Services Wuxi Ltd.

