



TEST REPORT

Test Report # 19A-006052-2 Date of Report Issue: October 17, 2019
 Date of Sample Received: October 10, 2019 Pages: Page 1 of 12

CLIENT INFORMATION:

Company: Mid Ocean Brands B.V.
 Address: 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong



SAMPLE INFORMATION:

Product Name: Soccer ball in PVC
 Style No.: - Labeled Age Grade: -
 Order No. (PO No.): - Client Request Age Grade: -
 Country of Origin: - Recommended Age Grade: 3 years+
 Country of Distribution: - Tested Age Grade: 3 years+
 Model No.: MO9788
 Composition/Main Material: PVC, rubber
 Buyer Name: Mid Ocean Brands B.V.
 Supplier Name: 100396
 Testing Period: 10/14/2019-10/17/2019

OVERALL RESULT:



Please refer to the following pages for test result summary and appropriate notes.

HANGZHOU ASIAINSPECTION TESTING TECHNOLOGY CO., LTD

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The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.
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TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	EN 71-3: 2019 Safety of Toys, Migration of Certain Elements
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 5 Benzene
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)
PASS	EN71-1:2014+A1:2018 Safety of toys - Part 1: Mechanical and physical properties
PASS	EN71-2:2011+A1:2014 Safety of toys - Part 2: Flammability

Remark: Test results are transferred from test report no. 19A-006052-1 date: 10/17/2019



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**DETAILED RESULTS:****EN 71-3: 2019 Safety of Toys, Migration of Certain Elements**

Test Method: EN 71-3:2019

Analytical Method: Inductively Coupled Plasma-Mass Spectrometry

Category III: Scraped-off materials

Specimen No.	1	2	3	---	RL	Soluble Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)	(mg/kg)
Aluminum (Al)	ND	ND	ND	---	50	70 000
Antimony (Sb)	ND	ND	ND	---	10	560
Arsenic (As)	ND	ND	ND	---	10	47
Barium (Ba)	ND	ND	ND	---	50	18 750
Boron (B)	ND	ND	ND	---	50	15 000
Cadmium (Cd)	ND	ND	ND	---	5	17
Chromium III (Cr III)^	ND	ND	ND	---	0.02	460
Chromium VI (Cr VI)^	ND	ND	ND	---	0.02	0.053
Cobalt (Co)	ND	ND	ND	---	10	130
Copper (Cu)	ND	ND	ND	---	50	7 700
Lead (Pb)	ND	ND	ND	---	10	23
Manganese (Mn)	ND	ND	ND	---	50	15 000
Mercury (Hg)	ND	ND	ND	---	10	94
Nickel (Ni)	ND	ND	ND	---	50	930
Selenium (Se)	ND	ND	ND	---	10	460
Strontium (Sr)	ND	ND	ND	---	50	56 000
Tin (Sn)	ND	ND	ND	---	1	180 000
Organic Tin^^	ND	ND	ND	---	1	12
Zinc (Zn)	ND	ND	ND	---	50	46 000
Conclusion	PASS	PASS	PASS	---		

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

^Soluble Chromium is reported when the soluble chromium result below the chromium VI limit.

^^ Soluble Tin is reported when the result is below the adjusted soluble organic tin limit 1 mg/kg.



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal) and/or CPSC-CH-E1002-08.3 (Non-Metal)

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	3	4	5	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	22	ND	ND	---	500
Conclusion	PASS	PASS	PASS	PASS	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
5	19A-006051-1	1	October 17, 2019





DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	3	4	5	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	ND	ND	ND	---	100
Conclusion	PASS	PASS	PASS	PASS	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
5	19A-006051-1	1	October 17, 2019



**DETAILED RESULTS:****Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)**

Test Method: AfPS GS 2014:01

Analytical Method: Gas Chromatography with Mass Spectrometry

Toys and childcare articles:

Specimen No.		1+2	3	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Benzo [a] pyrene (BaP)	50-32-8	ND	ND	---	---	0.5
Benzo [e] pyrene (BeP)	192-97-2	ND	ND	---	---	0.5
Benzo [a] anthracene (BaA)	56-55-3	ND	ND	---	---	0.5
Chrysene (CHR)	218-01-9	ND	ND	---	---	0.5
Benzo [b] fluroranthene (BbFA)	205-99-2	ND	ND	---	---	0.5
Benzo [j] fluroranthene (BjFA)	205-82-3	ND	ND	---	---	0.5
Benzo [k] fluroranthene (BkFA)	207-08-9	ND	ND	---	---	0.5
Dibenzo [a,h] anthracene (DBAhA)	53-70-3	ND	ND	---	---	0.5
Conclusion		PASS	PASS	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 0.2 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.





DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 5 Benzene

Test Method: In-House Method

Analytical Method: Headspace Gas Chromatography with Mass Spectrometry

Specimen No.		1+2	3	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Benzene	71-43-2	ND	ND	---	---	5
Conclusion		PASS	PASS	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 1 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



**DETAILED RESULTS:****Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)**

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1+2	3	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	---	1000
Sum of DBP, BBP, DEHP, DIBP		ND	ND	---	1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	---	
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	---	
Sum of DnOP, DINP, DIDP		ND	ND	---	1000
Conclusion		PASS	PASS	---	

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



**DETAILED RESULTS:****EN 71-1:2014+A1:2018 Safety of toys - Part 1: Mechanical and physical properties**

Clause	Test	Conclusion
4.1	Material cleanliness	PASS
4.7	Edges	PASS
4.8	Points and metallic wires	PASS
6	Packaging	PASS
7	Warnings, markings and instructions for use	
7.1	General	PASS
7.2	Toys not intended for children under 36 months	PASS

EN71-2:2011+A1:2014 Safety of toys - Part 2: Flammability

Test	Observation	Conclusion
4.1 General	No visual signs of Cellulose Nitrate.	PASS



**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	White synthetic leather	Main body
2	Black synthetic leather	Main body
3	Black soft plastic	Air hole
4	Black soft plastic	Liner
5	Silvery metal	Inflation needle

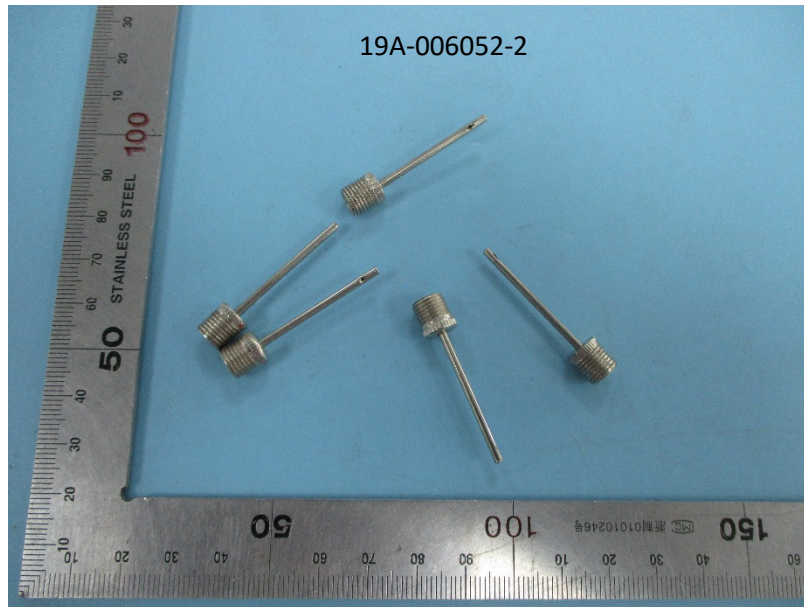


SAMPLE PHOTO:





SAMPLE PHOTO:



-End Report-

