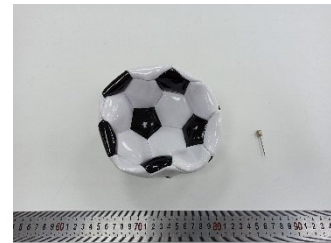


TEST REPORT

Test Report # 23A-010599(A1) Date of Report Issue: September 11, 2023
Date of Sample Received: August 23, 2023 Pages: Page 1 of 13

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
Style No.: MO7933/MO9007/MO9788 Labeled Age Grade: -
Order No.(PO No.): - Client Request Age Grade: Over 3 years of age
Country of Origin: - Recommended Age Grade: -
Country of Distribution: Europe Tested Age Grade: Over 3 years of age
Composition/Main Material: PVC,steel
Vendor Code: 118518
Testing Period: 08/23/2023-08/29/2023, 09/01/2023-09/04/2023, 09/06/2023-09/08/2023

OVERALL RESULT:

PASS

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

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QIMA (HANGZHOU) TESTING CO., LTD.

Ada Guo

Jeremy Xu

Ada Guo
Assist Physical Laboratory Manager

Jeremy Xu
Chemical Laboratory Supervisor



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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+A1:2021 Safety of Toys, Migration of Certain Elements
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 5 Benzene
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)
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	EN 71-1:2014+A1:2018 Safety of Toys: Mechanical & Physical Properties
PASS	EN 71-1:2014+A1:2018 Safety of Toys: Labeling Review
PASS	EN 71-2:2020 Safety of Toys: Flammability



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DETAILED RESULTS:

EN 71-3: 2019+A1:2021 Safety of Toys, Migration of Certain Elements

Test Method: EN 71-3:2019+A1:2021

Analytical Method: Inductively Coupled Plasma-Mass Spectrometry

Category III: Scraped-off materials

Specimen No.	1	2	3	4	RL (mg/kg)	Soluble Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)		
Aluminum (Al)	ND	ND	ND	ND	50	28 130
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	50	18 750
Boron (B)	ND	ND	ND	ND	50	15 000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium III (Cr III)^	ND	ND	ND	ND	0.2	460
Chromium VI (Cr VI)^	ND	ND	ND	ND	0.05	0.053
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	50	7 700
Lead (Pb)	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	50	15 000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	50	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	50	56 000
Tin (Sn)	ND	ND	ND	2	1	180 000
Organic Tin^^	ND	ND	ND	ND	3.3	12
Zinc (Zn)	ND	ND	ND	ND	50	46 000
Conclusion	PASS	PASS	PASS	PASS		



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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.

^^ Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.3 mg/kg) or the components were confirmed to be pure metal.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1	23A-009864(A1)	1	August 17, 2023
2	23A-009864(A1)	2	August 17, 2023
3	23A-009864(A1)	3	August 17, 2023



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DETAILED RESULTS:

EN 71-3: 2019+A1:2021 Safety of Toys, Migration of Certain Elements

Test Method: EN 71-3:2019+A1:2021

Analytical Method: Inductively Coupled Plasma-Mass Spectrometry

Category III: Scraped-off materials

Specimen No.	5	---	---	---	RL (mg/kg)	Soluble Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)		
Aluminum (Al)	ND	---	---	---	50	28 130
Antimony (Sb)	ND	---	---	---	10	560
Arsenic (As)	ND	---	---	---	10	47
Barium (Ba)	ND	---	---	---	50	18 750
Boron (B)	ND	---	---	---	50	15 000
Cadmium (Cd)	ND	---	---	---	5	17
Chromium III (Cr III)^	ND	---	---	---	0.2	460
Chromium VI (Cr VI)^	ND	---	---	---	0.05	0.053
Cobalt (Co)	ND	---	---	---	10	130
Copper (Cu)	ND	---	---	---	50	7 700
Lead (Pb)	ND	---	---	---	10	23
Manganese (Mn)	ND	---	---	---	50	15 000
Mercury (Hg)	ND	---	---	---	10	94
Nickel (Ni)	ND	---	---	---	50	930
Selenium (Se)	ND	---	---	---	10	460
Strontium (Sr)	ND	---	---	---	50	56 000
Tin (Sn)	ND	---	---	---	1	180 000
Organic Tin^^	ND	---	---	---	3.3	12
Zinc (Zn)	ND	---	---	---	50	46 000
Conclusion	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.

^^ Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.3 mg/kg) or the components were confirmed to be pure metal.



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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.	
1	23A-009864(A1)	1	August 17, 2023
2	23A-009864(A1)	2	August 17, 2023
3	23A-009864(A1)	3	August 17, 2023



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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	4+5	---	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	ND	---	5
Conclusion	PASS	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.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1	23A-009864(A1)	1	August 17, 2023
2	23A-009864(A1)	2	August 17, 2023



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DETAILED RESULTS:

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

Test Method: AfPS GS 2019:01

Analytical Method: Gas Chromatography with Mass Spectrometry

Toys and childcare articles

Specimen No.		1	2	4+5	---	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	ND	---	0.5
Benzo [e] pyrene (BeP)	192-97-2	ND	ND	ND	---	0.5
Benzo [a] anthracene (BaA)	56-55-3	ND	ND	ND	---	0.5
Chrysene (CHR)	218-01-9	ND	ND	ND	---	0.5
Benzo [b] fluroranthene (BbFA)	205-99-2	ND	ND	ND	---	0.5
Benzo [j] fluroranthene (BjFA)	205-82-3	ND	ND	ND	---	0.5
Benzo [k] fluroranthene (BkFA)	207-08-9	ND	ND	ND	---	0.5
Dibenzo [a,h] anthracene (DBAhA)	53-70-3	ND	ND	ND	---	0.5
Conclusion		PASS	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.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1	23A-009864(A1)	1	August 17, 2023
2	23A-009864(A1)	2	August 17, 2023



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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	4+5	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	341	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	1000
Sum of DBP, BBP, DEHP, DIBP		ND	341	ND	1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	ND	
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	
Sum of DnOP, DINP, DIDP		ND	ND	ND	1000
Conclusion		PASS	PASS	PASS	

Note:

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

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.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1	23A-009864(A1)	1	August 17, 2023
2	23A-009864(A1)	2	August 17, 2023



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DETAILED RESULTS:**EN 71-1:2014+A1:2018 Safety of Toys: Mechanical & Physical Properties**

Mechanical hazards evaluated as described in EN71-1, as applicable.

Clause	Test	Conclusion
4.1	Material cleanliness	PASS
4.7	Edges	PASS
4.8	Points and metallic wires	PASS
4.22	Small balls	PASS
7.1	Warning - General	PASS
7.2	Warning for Toys not intended for Children under 36 months	PASS

Remark: The results of M07933 have been transferred into this report from Test Report #23A-009864(A1) dated: 08/17/2023

EN 71-2:2020 Safety of Toys: Flammability

Flammability test evaluated as described in EN71-2, as applicable.

Test	Observation	Conclusion
4.1 General	No visual signs of Cellulose Nitrate or with similar behaviour in fire as celluloid.	PASS

Remark: The results of M07933 have been transferred into this report from Test Report #23A-009864(A1) dated: 08/17/2023



SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Black/red coated white soft plastic with white foam	Lettering (MO7933/MO9007)
2	Black soft plastic	Air hole (MO7933/MO9007/MO9788)
3	Silvery metal	Main body of inflation needle (MO7933/MO9007/MO9788)
4	Black soft plastic with black foam	Main body (MO9007)
5	Black soft plastic with black foam	Main body (MO9788)



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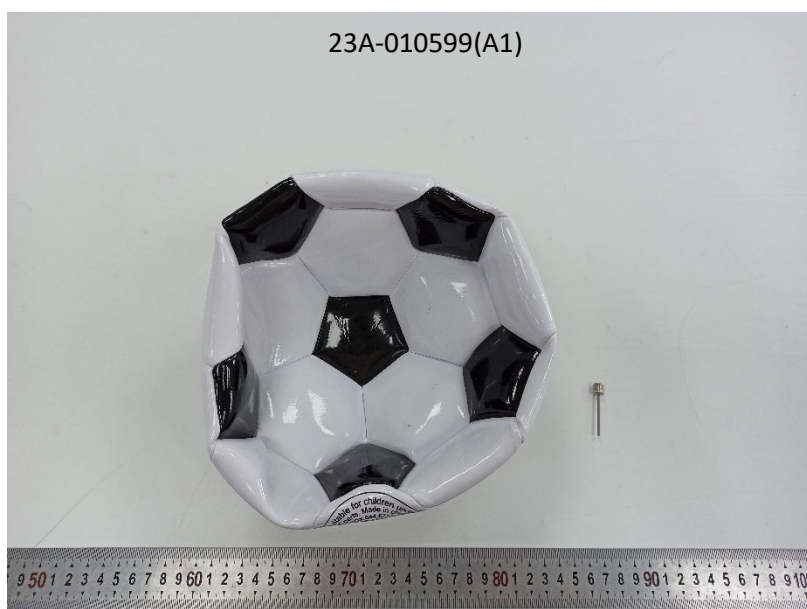
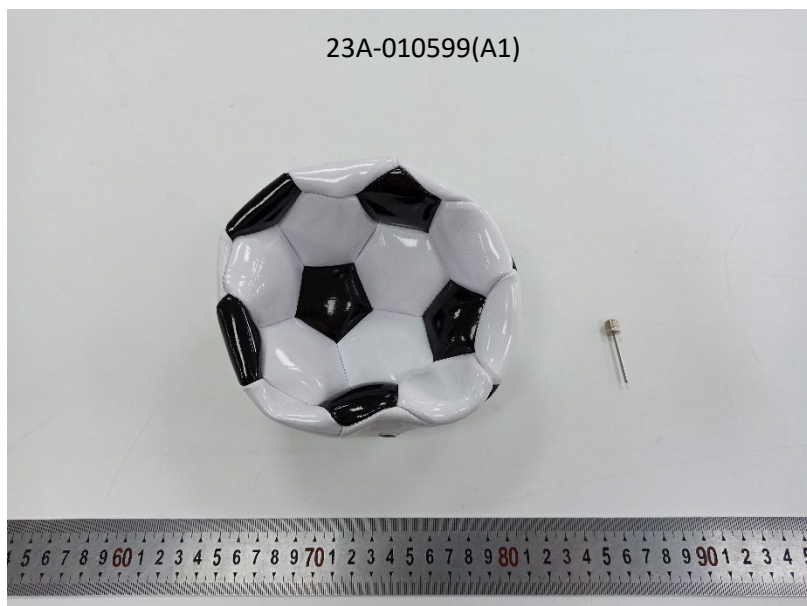
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