

Test report

T-25438371-11-R1



Verify Report

Overall result

Pass

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

Client information

Client: Mid Ocean Brands B.V.
Address: Unit 711-716, 7/F., Tower A, 83 King Lam
Street, Cheung Sha Wan, Kowloon, Hong Kong



Sample information

Description:	soccer ball	Labeled age grade:	-
SKU / style #:	MO7933/MO9007/MO9788	Requested age grade:	Over 3 years of age
Country of origin:	-	Tested age grade:	Over 3 years of age
Country of distribution:	Europe	Vendor code:	118518
Material / composition:	PVC,steel		
Quantity submitted:	3 styles/total:7 pcs + a lot parts + 2 pcs per style		

General information

Sample receipt date:	24-Jul-2025	Report date:	08-Aug-2025
Testing period:	25-Jul-2025 to 31-Jul-2025, 01-Aug-2025 to 07-Aug-2025		

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Result summary

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

Test(s) conducted	Conclusion
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 as amended, Item 51 and 52 Phthalates –Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)	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
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	Pass

Note:

By client's request, selected components were conducted for all chemical testing.



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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.	C1	C2	C3	C4	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	1.7	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	ND	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		

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.





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.	C5	---	---	---	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.





Detailed results

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

Test Method: ASTM F963-23 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	C1	C2	C3	C4	C5	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	ND	100
Conclusion	Pass	Pass	Pass	Pass	Pass	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

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





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.		C1	C2	C4	Limit (% w/w)
Test Item	CAS No.	Result (% w/w)	Result (% w/w)	Result (% w/w)	
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.1
Benzyl Butyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.1
Di-(2-Ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	0.1
Diisobutyl Phthalate (DIBP)	84-69-5	ND	ND	ND	0.1
Sum of DBP, BBP, DEHP, DIBP		ND	ND	ND	0.1
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	0.1
Conclusion		Pass	Pass	Pass	

Note:

% w/w = Percent by weight

LT = Less than

ND = Not detected (Reporting Limit = 0.015 % w/w)



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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.		C5	---	---	Limit (% w/w)
Test Item	CAS No.	Result (% w/w)	Result (% w/w)	Result (% w/w)	
Dibutyl Phthalate (DBP)	84-74-2	ND	---	---	0.1
Benzyl Butyl Phthalate (BBP)	85-68-7	ND	---	---	0.1
Di-(2-Ethylhexyl) Phthalate (DEHP)	117-81-7	ND	---	---	0.1
Diisobutyl Phthalate (DIBP)	84-69-5	ND	---	---	0.1
Sum of DBP, BBP, DEHP, DIBP		ND	---	---	0.1
Di-n-Octyl Phthalate (DnOP)	117-84-0	ND	---	---	
Diisononyl Phthalate (DINP)	28553-12-0	ND	---	---	
	68515-48-0				
Diisodecyl Phthalate (DIDP)	26761-40-0	ND	---	---	
	68515-49-1				
Sum of DnOP, DINP, DIDP		ND	---	---	0.1
Conclusion		Pass	---	---	

Note:

% w/w = Percent by weight

LT = Less than

ND = Not detected (Reporting Limit = 0.015 % w/w)



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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.		C1	C2	C4	C5	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	ND	0.5
Benzo [e] pyrene (BeP)	192-97-2	ND	ND	ND	ND	0.5
Benzo [a] anthracene (BaA)	56-55-3	ND	ND	ND	ND	0.5
Chrysene (CHR)	218-01-9	ND	ND	ND	ND	0.5
Benzo [b] fluoranthene (BbFA)	205-99-2	ND	ND	ND	ND	0.5
Benzo [j] fluoranthene (BjFA)	205-82-3	ND	ND	ND	ND	0.5
Benzo [k] fluoranthene (BkFA)	207-08-9	ND	ND	ND	ND	0.5
Dibenzo [a,h] anthra- cene (DBA hA)	53-70-3	ND	ND	ND	ND	0.5
Conclusion		Pass	Pass	Pass	Pass	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

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



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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.	C1	C2	C4	C5	Limit (mg/kg)
Test Item	CAS No.	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)



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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

Note:

By client's request, only Ball was tested.

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

Note:

By client's request, only Ball was tested.



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Specimen description

Specimen #	Specimen description	Location
C1	Black printed white soft plastic with white foam	MO7933 -main body
C2	Black soft plastic	MO7933-air inlet
C3	Silvery metal	MO7933-inflation needle
C4	Black soft plastic	MO9007/ MO9788-main body
C5	White soft plastic	MO9007/ MO9788-main body



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Pictures

Sample photo:



End of the report

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and the method /regulation section(s) tested as described herein. If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule. (<https://www.qima.com/conditions-of-service#decisionRule>). This test report may not be reproduced in whole or in part, without the written approval of QIMA (Hangzhou) Testing Co., Ltd.



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