

TEST REPORT

Test Report # 20A-009088(A1) Date of Report Issue: December 21, 2020
Date of Sample Received: December 14, 2020 Pages: Page 1 of 19

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: Adjustable speed jumping rope in RPET polyester pouch
Style No.: - Labeled Age Grade: -
Order No. (PO No.): - Client Request Age Grade: 3 years+
Country of Origin: - Recommended Age Grade: -
Country of Distribution: Europe Tested Age Grade: 3 years+
Model No.: MO6217
Composition/Main Material: Steel, pvc, PP, polyester
Buyer Name: Mid Ocean Brands B.V.
Supplier Name: 100396
Testing Period: 12/17/2020-12/21/2020

OVERALL RESULT:

 **PASS**

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

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Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and 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.

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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 43 Azocolorants in Textiles
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



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	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	8	2	28 130 ^{^^^}
Antimony (Sb)	ND	ND	ND	ND	2	560
Arsenic (As)	ND	ND	ND	ND	2	47
Barium (Ba)	ND	ND	ND	ND	2	18 750
Boron (B)	10	9	7	8	2	15 000
Cadmium (Cd)	ND	ND	ND	ND	2	17
Chromium III (Cr III) [^]	ND	ND	ND	ND	0.05	460
Chromium VI (Cr VI) [^]	ND	ND	ND	ND	0.05	0.053
Cobalt (Co)	ND	ND	ND	ND	2	130
Copper (Cu)	ND	ND	ND	ND	2	7 700
Lead (Pb)	ND	ND	ND	ND	2	23
Manganese (Mn)	ND	ND	ND	ND	2	15 000
Mercury (Hg)	ND	ND	ND	ND	0.15	94
Nickel (Ni)	ND	ND	ND	ND	2	930
Selenium (Se)	ND	ND	ND	ND	2	460
Strontium (Sr)	ND	ND	ND	ND	2	56 000
Tin (Sn)	ND	ND	ND	ND	1	180 000
Organic Tin ^{^^}	ND	ND	ND	ND	2.4	12
Zinc (Zn)	47	50	57	18	2	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.

^{^^} Soluble Tin (corrected as tributyl tin form) is reported when the result below the adjusted soluble organic tin limit 2.4 mg/kg.

^{^^^} The Soluble Aluminum limit is according to Directive (EU) 2019/1022 which is applied from 20 May 2021.



Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1	20A-008649(A1)	1	December 9, 2020
2	20A-008649(A1)	2	December 9, 2020
3	20A-008649(A1)	3	December 9, 2020
4	20A-008649(A1)	4	December 9, 2020



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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.	5	6	7	8	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	6	ND	2	28 130 ^{^^^}
Antimony (Sb)	ND	ND	ND	ND	2	560
Arsenic (As)	ND	ND	ND	ND	2	47
Barium (Ba)	ND	ND	4	ND	2	18 750
Boron (B)	11	11	9	5	2	15 000
Cadmium (Cd)	ND	ND	ND	ND	2	17
Chromium III (Cr III) [^]	ND	ND	ND	ND	0.05	460
Chromium VI (Cr VI) [^]	ND	ND	ND	ND	0.05	0.053
Cobalt (Co)	ND	ND	ND	ND	2	130
Copper (Cu)	ND	ND	4	3	2	7 700
Lead (Pb)	ND	ND	ND	ND	2	23
Manganese (Mn)	ND	ND	ND	6	2	15 000
Mercury (Hg)	ND	ND	ND	ND	0.15	94
Nickel (Ni)	ND	ND	ND	20	2	930
Selenium (Se)	ND	ND	ND	ND	2	460
Strontium (Sr)	ND	ND	ND	ND	2	56 000
Tin (Sn)	ND	ND	ND	ND	1	180 000
Organic Tin ^{^^}	ND	ND	ND	ND	2.4	12
Zinc (Zn)	167	34	37	ND	2	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.

^{^^} Soluble Tin (corrected as tributyl tin form) is reported when the result below the adjusted soluble organic tin limit 2.4 mg/kg.

^{^^^} The Soluble Aluminum limit is according to Directive (EU) 2019/1022 which is applied from 20 May 2021.



Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
5	20A-008649(A1)	5	December 9, 2020
6	20A-008649(A1)	6	December 9, 2020
7	20A-008649(A1)	7	December 9, 2020



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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.	9	---	---	---	RL (mg/kg)	Soluble Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)		
Aluminum (Al)	ND	---	---	---	2	28 130 ^{^^}
Antimony (Sb)	ND	---	---	---	2	560
Arsenic (As)	ND	---	---	---	2	47
Barium (Ba)	ND	---	---	---	2	18 750
Boron (B)	9	---	---	---	2	15 000
Cadmium (Cd)	ND	---	---	---	2	17
Chromium III (Cr III) [^]	ND	---	---	---	0.05	460
Chromium VI (Cr VI) [^]	ND	---	---	---	0.05	0.053
Cobalt (Co)	ND	---	---	---	2	130
Copper (Cu)	5	---	---	---	2	7 700
Lead (Pb)	ND	---	---	---	2	23
Manganese (Mn)	17	---	---	---	2	15 000
Mercury (Hg)	0.72	---	---	---	0.15	94
Nickel (Ni)	28	---	---	---	2	930
Selenium (Se)	ND	---	---	---	2	460
Strontium (Sr)	ND	---	---	---	2	56 000
Tin (Sn)	ND	---	---	---	1	180 000
Organic Tin ^{^^}	ND	---	---	---	2.4	12
Zinc (Zn)	ND	---	---	---	2	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.

^{^^} Soluble Tin (corrected as tributyl tin form) is reported when the result below the adjusted soluble organic tin limit 2.4 mg/kg.

^{^^^} The Soluble Aluminum limit is according to Directive (EU) 2019/1022 which is applied from 20 May 2021.



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	6	8	9	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	61	ND	500
Conclusion	PASS	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.	
1+2+3	20A-008649(A1)	1+2+3	December 9, 2020
4+5	20A-008649(A1)	4+5	December 9, 2020
6	20A-008649(A1)	6	December 9, 2020
8	20A-008850(A1)	8	December 9, 2020
9	20A-008977(A1)	9	December 15, 2020



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	8	9	---	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+2+3	20A-008649(A1)	1+2+3	December 9, 2020
4+5	20A-008649(A1)	4+5	December 9, 2020
8	20A-008850(A1)	8	December 9, 2020
9	20A-008977(A1)	9	December 15, 2020



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.		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	---	---	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)

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
4	20A-008649(A1)	4	December 9, 2020
5	20A-008649(A1)	5	December 9, 2020



DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles

Test Method: EN 14362-1:2012, EN 14362-3:2012

Analytical Method: Gas Chromatography with Mass Spectrometry/ Liquid Chromatography-Mass Spectrometer (LC-MS)

Specimen No.	6	---	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)
4-aminobiphenyl	92-67-1	ND	---	---	30
Benzidine	92-87-5	ND	---	---	30
4-chloro-o-toluidine	95-69-2	ND	---	---	30
2-naphtylamine	91-59-8	ND	---	---	30
2-Amino-4-Nitrotoluene	97-56-3	ND	---	---	30
5-nitro-o-toluidine	99-55-8	ND	---	---	30
4-chloroaniline	106-47-8	ND	---	---	30
4 methoxy-m - phenylenediamine	615-05-4	ND	---	---	30
4,4'-diaminodiphenyl methane	101-77-9	ND	---	---	30
3,3'-dichlorobenzidine	91-94-1	ND	---	---	30
3,3'-dimethoxybenzidine	119-90-4	ND	---	---	30
3,3'-dimethylbenzidine	119-93-7	ND	---	---	30
3,3'-dimethyl-4,4'-diaminodiphenyl methane	838-88-0	ND	---	---	30
p-cresidine	120-71-8	ND	---	---	30
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	ND	---	---	30
4,4'-oxydianiline	101-80-4	ND	---	---	30
4,4'-thiodianiline	139-65-1	ND	---	---	30
o-toluidine	95-53-4	ND	---	---	30
2,4-toluylenediamine	95-80-7	ND	---	---	30
2,4,5-trimethylaniline	137-17-7	ND	---	---	30
2-methoxyaniline	90-04-0	ND	---	---	30
4-aminoazobenzene	60-09-3	ND	---	---	30
Conclusion		PASS	---	---	



Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 5 mg/kg)

Remark:

In the case of levels per amine component less than or equal to 30 mg/kg, according to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected in the commodity submitted.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
6	20A-008649(A1)	6	December 9, 2020



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.		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	---	---	5
Conclusion		PASS	PASS	---	---	

Note:
 mg/kg = Milligrams per kilogram
 LT = Less than
 ND = Not detected (Reporting Limit = 1 mg/kg)

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
4	20A-008649(A1)	4	December 9, 2020
5	20A-008649(A1)	5	December 9, 2020



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.	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	ND	---
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	---
Sum of DBP, BBP, DEHP, DIBP		ND	ND	---
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	---
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)

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
4	20A-008649(A1)	4	December 9, 2020
5	20A-008649(A1)	5	December 9, 2020



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
7	Warnings, markings and instructions for use	
7.1	General	PASS
7.2	Toys not intended for children under 36 months	PASS

Remark: Test results are transferred from test report no.20A-008649(A1), date: 12/09/2020

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

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

Remark: Test results are transferred from test report no.20A-008649(A1), date: 12/09/2020



SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Black plastic	Handle
2	Black plastic	Axis of handle
3	White plastic	Inside of handle
4	Black soft plastic	Both ends of wire jacket cover
5	Black soft plastic	Wire jacket
6	Black textile	Bag
7	Black textile	Drawstring
8	Silvery metal	Screw
9	Silvery metal	Nut



SAMPLE PHOTO:



SAMPLE PHOTO:



SAMPLE PHOTO:



-End Report-

