

TEST REPORT

Test Report # 19A-006944-2-S1 Date of Report Issue: December 9, 2019

Date of Sample Received: November 14, 2019 Pages: Page 1 of 9

CLIENT INFORMATION:

Company: Mid Ocean Brands B.V.

Address: 7/F, Kings Tower, 111 King Lam Street, Cheung

Sha Wan, Kowloon, Hong Kong

A0

SAMPLE INFORMATION:

Product Name: Set of 3pcs brainteasers in 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.: MO9191
Composition/Main Material: Cotton, Iron

Buyer Name: Mid Ocean Brands B.V.

Supplier Name: 100396

Testing Period: 11/04/2019-12/06/2019

OVERALL RESULT:

PASS

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

QIMA (HANGZHOU) TESTING CO., LTD.

Kein.lee

Kevin Lee

RC-CSHZ-R007

Technical Manager

OU) TESTING CO., LTD. • 4-5/F A2 BLDG NO. 1213 HUOJU SOUTH ROAD PUYAN STREET BINJIANG DISTRICT HANGZHOU CHINA
• Email: Labtesting@qima.com • Tel: (86) 571 8999 7158.

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



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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 43 Azocolorants in Textiles
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 27 Nickel Release
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:

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1) Remark: test results are transferred from test report no. 19A-006944-1 date: 12/06/2019

2) *Revised information and supersedes the previous report no. 19A-006944-2 date: 12/06/2019



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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			Soluble
Took Itoms	Result	Result	Result	Result	RL	Limit
Test Item	(mg/kg)	(mg/kg)	(mg/kg)	(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:

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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:

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

Test Method: EN 14362-1:2012

Analytical Method: Gas Chromatography with Mass Spectrometry/ Liquid Chromatography-Mass

Spectrometer (LC-MS)

Specimen No.		1				Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(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				



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Note:

mg/kg = Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 5 mg/kg)

Remark:

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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.



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 27 Nickel Release

Test Method: EN 1811:2011+A1:2015¹ and EN 12472:2005+A1:2009²
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Direct and Prolonged Contact with Skin

Specimen No.	3	 	
Size of Tested Sample Area (cm²)	20	 	 Limit
Volume of Test solution Used (mL)	20	 	
Nickel Trial 1 (μg/cm²/week)	ND	 	 0.5*
Nickel Trial 2 (μg/cm²/week)	ND	 	 0.5*
Conclusion	PASS	 	

Note:

cm² = Square centimeters μg/cm²/week = Micrograms per square centimeter per week mL = Millilitres LT = Less than ND = Not detected (Reporting Limit = 0.1 μg/cm²/week)

Remark:

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*Because of the combined measurement uncertainty, an article is: Compliant when the nickel release value is less than 0.88 μ g/cm²/week; Non-compliant when the nickel release value is greater than or equal to 0.88 μ g/cm²/week.



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DETAILED RESULTS:

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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

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

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



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SPECIMEN DESCRIPTION:

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Specimen No.	Specimen Description	Location
1	Beige textile	Bag
2	Light yellow textile	Rope
3	Silvery metal	Triangle brainteasers



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*SAMPLE PHOTO:

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-End Report-