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Applicant: Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: Brain teaser puzzle in wood / cord. Triangle; Brain teaser puzzle in wood / cord. Rectangle

Item No.: MO6989; MO6990

Labeled Age Grading: No Provided

Requested Age

Grading:

3Y+

Tested Age Grading: 3Y+

Receiving Date: 22-May-2023,1-Jun-2023,5-Jun-2023

Test Period: From 22-May-2023 to 7-Jun-2023

Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Safety of Toys: Mechanical and Physical Properties	EN 71-1:2014+A1:2018	PASS
2	Safety of Toys: Flammability	EN 71-2:2020	PASS
3	Safety of Toys: Migration of Certain Elements	EN 71-3:2019+A1:2021	PASS
4	Release of Nickel -Item 27 of Annex XVII of REACH Regulation (EC) 1907/2006	EN 12472:2020+A1:2009&EN 1811:2011+A1: 2015, determined by ICP-OES	PASS

Signed for and on behalf of State Testing Services

Mark Mai

(Technical Director)

e-mail: stsgz@stsapp.com

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#	Test Item(s)	Reference Standard/Method	Result
5	Formaldehyde - EN 71-9:2005+A1:2007	EN 717-3:1996, analyzed by Spectrophotometer(UV).	PASS
6	Azo colorants content - Item 43 of Annex XVII of the REACH Regulation (EC) No 1907/2006 & amendment (EC) No 552/2009 and (EU) No 126/2013	ISO 14362-1:2017 & ISO 14362-3:2017, determined by GC/MS and HPLC	PASS

Result:

1. Safety of Toys: Mechanical and Physical Properties – EN 71-1:2014+A1:2018

PASS

Clause	Parameter	Results
4	General requirements	
4.1	Material cleanliness	Pass
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	NA
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA

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4.16	Heavy immobile toys	NA
4.17	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	Pass
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirement	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid-filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA

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5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.11	Toys otherwise intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA

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7.20	Magnetic / electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

Remark(s): (a) NA = Not Applicable

2. Safety of Toys: Flammability - EN 71-2:2020

Clause	Parameter	Results
4.1	General requirements	Pass
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys	NA

Remark(s): (a)NA = Not Applicable

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e-mail: stsgz@stsapp.com

PASS





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3.

Safety of Toys: Migration of Certain Elements EN 71-3:2019+A1:2021 General elements determined by ICP-MS Chromium(VI) determined by IC-ICP-MS Organic tin determined by GC-MS

			Mat	erial			
	Compound		Catego	ory III*1		Limit (mg/kg)	MDL (mg/kg)
		1	2	3	4		
1	Aluminum (Al)	26	N.D.	18	N.D.	28130	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	2
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	0.2
4	Barium(Ba)	N.D.	N.D.	N.D.	N.D.	18750	10
5	Boron (B)	N.D.	N.D.	N.D.	N.D.	15000	10
6	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	17	0.01
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	1.0
8	Chromium (VI) (Cr)	N.D.	N.D.	N.D.	N.D.	0.053	0.005
9	Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	130	0.2
10	Copper (Cu)	N.D.	N.D.	N.D.	N.D.	7700	10
11	Lead(Pb)	N.D.	N.D.	N.D.	N.D.	23	0.1
12	Manganese (Mn)	N.D.	N.D.	55	13	15000	10
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	94	0.2
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	930	1.0
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	1.0
16	Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	56000	10
17	Tin (Sn)	N.D.	N.D.	N.D.	N.D.	180000	4.9
18	Organic tin (Sn)	N.D.*2	N.D.	N.D.*2	N.D.*2	12*2	0.05 *2
19	Zinc (Zn)	14	N.D.	N.D.	N.D.	46000	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

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Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm

(b) MDL: Method detected limit

(c) N.D.: Not detected (result is less than RL)

*1: Categories of various materials:

Category I: Dry, brittle, powder like or pliable material Category II: Liquid or sticky material Category III: Scraped-off material *2: Expressed as soluble Tributyltin.

Release of Nickel -Item 27 of Annex XVII of REACH Regulation (EC) 1907/2006 4.

EN 12472:2005+A1:2009&EN 1811:2011+A1: 2015, determined by ICP-OES

Compound		Material 2		Limit (µg/cm²/	RL (μg/cm²/
	Α	В	С	week)	week)
Sample area (cm²)	6.31	6.31	6.31	-	-
Volume of Test Solution (ml)	6.4	6.4	6.4	-	-
Result	N.D.	N.D.	N.D.	#	0.05
Conclusion	PASS		-	-	

(a) $\mu g/cm^2/week:microgram\ per\ square\ centimeter\ per\ week$ (b) RL: Report limit (c) N.D.: Not detected (result is less than RL) Remark(s):

1.Inserted into pierced parts of the human body Limit: 0.35µg/cm²/week

2.Come into direct and prolonged contact with the skin Limit: 0.88µg/cm²/week

Formaldehyde - EN 71-9:2005+A1:2007

With reference to EN 717-3:1996, analyzed by UV Spectrophotometer (UV).

	Compound	Mat	erial	Limit	RL
Compound		3	4	(mg/kg)	(mg/kg)
1	Formaldehyde	N.D.	N.D.	80	10
	Conclusion	PASS	PASS	-	-

(a) mg/kg: milligram per kilogram (b) RL: Report limit、 Remark:

(c) N.D.: Not detected (result is less than RL)

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6. Azo colourants content - Item 43 of Annex XVII of REACH Regulation (EC) No 1907/2006 & amendment EC No 552/2009 and (EU) No 126/2013

ISO 14362-1:2017& ISO 14362-3:2017, determined by GC/MS and HPLC

		Material	Limit	RL	
	Compound	1	(mg/kg)	(mg/kg)	
1	Biphenyl-4-ylamine/4-aminobiphenyl/ Xenylamine CAS#92-67-1	N.D.	30	5	
2	Benzidine CAS#92-87-5	N.D.	30	5	
3	4-chloro-o-toluidine CAS#95-69-2	N.D.	30	5	
4	2-Naphthylamine CAS#91-59-8	N.D.	30	5	
5	o-aminoazotoluene/4-o-tolyazao-o- toluidine /4-amino-2',3- dimethylazobenzene* CAS#97-56-3	N.D.	30	5	
6	5-nitro-o-toluidine/2-amino-4- nitrotoluol* CAS#99-55-8	N.D.	30	5	
7	4-chloroaniline CAS#106-47-8	N.D.	30	5	
8	4-methoxy-m-phenylenediamine/ 2,4-diaminoanisole CAS#615-05-4	N.D.	30	5	
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane CAS#101-77-9	N.D.	30	5	
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'- ylenediamine CAS#91-94-1	N.D.	30	5	
11	3,3'-dimethoxybenzidine/o-dianisidine CAS#119-90-4	N.D.	30	5	
12	3,3'-dimethylbenzidine/4,4'-bi-o- toluidine CAS#119-93-7	N.D.	30	5	
13	4,4'-methylenedi-o-toluidine CAS#838-88-0	N.D.	30	5	
14	6-methoxy-m-toluidine/p-cresidine CAS#120-71-8	N.D.	30	5	
15	4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'-methylene-dianiline CAS#101-14-4	N.D.	30	5	
16	4,4'-oxydianiline CAS#101-80-4	N.D.	30	5	
17	4,4'-thiodianiline CAS#139-65-1	N.D.	30	5	
18	o-toluidine/2-aminotoluen CAS#95-53-4	N.D.	30	5	
19	2,4-diaminotoluene/2,4- toluylendiamine/ methyl-m-phenylenediamine	N.D.	30	5	

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	CAS#95-80-7			
20	2,4,5-trimethylaniline CAS#137-17-7	N.D.	30	5
21	o-anisidine/2-methoxyaniline CAS#90-04-0	N.D.	30	5
22	4-aminoazobenzene** CAS#60-09-3	N.D.	30	5
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram (b) N.D.: Not detected (result is less than RL)

Material List:

Material #	Position / Sample Description
1	Beige textile,cord
2	Silvery metal,ring
3	Brown wood,bead
4	Dark brown wood,block

Remark(s): (a) The test material point is selected by client, the chemical test conclusions in the report only apply to the test material.

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⁽c) RL: Report limit

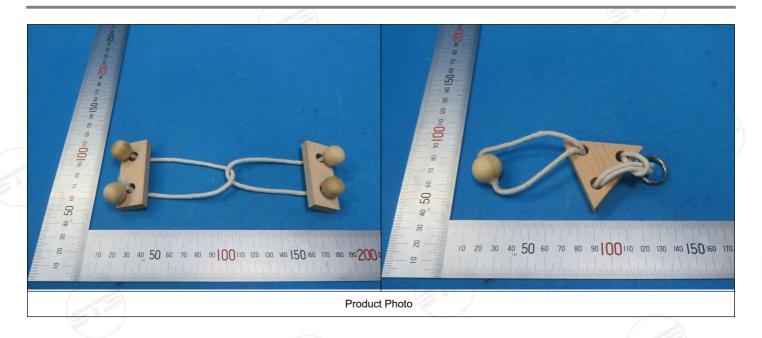
*: The amines o-aminoazotoluene (No 5, CAS No.97-56-3) and 2-amino-4-nitrotoluene (No 6, CAS No.99-55-8) are further reduced to o-toluidine (No 18, CAS No. 95-53-4) and 2, 4-diaminotoluene (No 19, CAS No. 95-80-7).

**: Azo colorants that are able to form 4-aminoazobenzene (No 22, CAS No. 60-09-3) generate, under the condition of this method, aniline (CAS No. 62-53-3) and 1, 4-phenylendiamine (CAS No. 106-50-3).Due to detection limits, only aniline may be detected. If aniline is detected above 5mg/kg, then the presence of these colorants should be tested by ISO 14362-3:2017.



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Photo(s):





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 Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing
- 9. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限,数据和信息将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。

Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

10. 报告的签发记录可通过登录 www.stsgz.com 查询。如需进一步查询报告有效性或核实报告,需与本公司联系。 Issuance records of the Report are available on the internet at www.stsgz.com. Further enquiry of validity or verification of the Report should be addressed to the company.