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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: Set of 2 metal / cord brain teasers

Model: MO2075

Labeled Age Grading: No Provided

Requested Age

Grading:

3Y+

Tested Age Grading: 3Y+

Receiving Date: 19-May2023,31-May2023

Test Period: From 19-May2023 to 1-Jun2023

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	NA
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
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

		Mate	erial		
Compound		Category III ^{*1}		Limit (mg/kg)	RL (mg/kg)
		1	2	(33)	(99)
1	Aluminum (Al)	10	N.D.	28130	10
2	Antimony (Sb)	N.D.	N.D.	560	2
3	Arsenic(As)	N.D.	N.D.	47	0.2
4	Barium(Ba)	N.D.	N.D.	18750	10
5	Boron (B)	N.D.	869	15000	10
6	Cadmium (Cd)	N.D.	N.D.	17	0.01
7	Chromium (III) (Cr)	N.D.	N.D.	460	1.0
8	Chromium (VI) (Cr)	N.D.	N.D.	0.053	0.005
9	Cobalt (Co)	N.D.	N.D.	130	0.2
10	Copper (Cu)	22	N.D.	7700	10
11	Lead(Pb)	N.D.	N.D.	23	0.1
12	Manganese (Mn)	N.D.	42	15000	10
13	Mercury (Hg)	N.D.	N.D.	94	0.2
14	Nickel (Ni)	N.D.	N.D.	930	1.0
15	Selenium(Se)	N.D.	N.D.	460	1.0
16	Strontium (Sr)	N.D.	N.D.	56000	10
17	Tin (Sn)	N.D.	N.D.	180000	4.9
18	Organic tin (Sn)	N.D.*2	N.D.*2	12* ²	0.05 *2
19	Zinc (Zn)	13	N.D.	46000	10
	Conclusion	PASS	PASS	-	-

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

(b) RL: Report 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

		Material		1.1	D.
Compound	3			Limit (µg/cm²/	RL (µg/cm²/
	Α	В	С	week)	week)
Sample area (cm²)	6.54	6.54	6.54	-	-
Volume of Test Solution (ml)	6.54	6.54	6.54	-	-
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		Material	Limit	RL
	Compound 2		(mg/kg)	(mg/kg)
1	Formaldehyde	N.D.	80	10
	Conclusion	PASS	-	-

(a) mg/kg: milligram per kilogram Remark:

(b) RL: Report limit

(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

	0	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 CAS#95-80-7	N.D.	30	5

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

Remark(s): (a) mg/kg: milligram per kilogram

Material List:

Material #	Position / Sample Description
1	White textile,string
2	Brown wood,bead
3	Silvery metal,ring

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