

### **TEST REPORT**

### MID OCEAN BRANDS B.V.

**Technical Report:** (3225)139-0509 May 30,2025 Date Received: May 19,2025 Page 1 of 19

MID OCEAN BRANDS B.V. UNIT 711-716,7/F.,TOWER A,83 KING LAM STREET,CHEUNG SHA WAN,KWLOON,HONG KONG

#### **SAMPLE INFORMATION:**

Sample Description:	WOODEN STAMPS	Sample Quantity:	N/A
Vendor:	111041	Style No(s):	CX1512
Manufacturer:	N/A	SKN/SKU No.:	N/A
Buyer:	N/A	PO No.:	N/A
Labeled Age Grade:	NOT PROVIDED	Ref #:	N/A
Appropriate Age Grade:	N/A	Country of Origin:	CHINA
Client Specified Age Grade:	OVER 3 YEARS OF AGE	Assortment No.:	N/A
Tested Age Grade:	OVER 3 YEARS OF AGE	Country of Destination:	EUROPE
UPC Code:	N/A	Color :	N/A

#### **EXECUTIVE SUMMARY:**

TEST REQUESTED	CONCLUSION
The mechanical and physical properties requirements of the tested subclauses of the European	PASS
Standard, "Safety of toys", EN71: Part 1:2014+A1:2018, clauses 1-6.	SEE NOTE 2
The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2020	PASS
Aromatic Amines Content from Azo Colorants - Regulation (EC) No. 1907/2006 Annex XVII Entry 43, Points 1 & 2	PASS
Formaldehyde Release from Wood	PASS
Polycyclic Aromatic Hydrocarbons (PAHs) Content – Regulation (EC) No. 1907/2006 Annex XVII Entry 50, Point 5	PASS
Pentachlorophenol and its salt and ester (PCP) Content - European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs), Annex I, Part A	PASS
Phthalates Content – Reference to regulation (EC) No. 1907/2006 Annex XVII Entry 51 & 52	PASS
Total Cadmium Content in Plastic Material - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with its Latest Amendment, Entry 23	PASS
Total Cd Content & As Client's requirement	PASS
Migration of Certain Elements - EN71-3:2019+A1:2021	PASS
Total Cadmium Content in Paints on Painted Article - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with its Latest Amendment, Annex XVII, Entry 23	PASS
Benzene Content in Toys or Parts of Toys - European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Amendment up to EU No. 412/2012, Annex XVII, Entry 5, Point 1	PASS
Migration of Certain Elements - EN 71-3:2019+A2:2024	PASS
COLOURFASTNESS TO RUBBING	PASS

### Note:

1. The sample is tested as "Over 3 years of age" per the client's request .



This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <a href="http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/lems-conditions/">http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/lems-conditions/</a> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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2 No relevant packaging was provided with the submitted sample(s), consequently, evaluation of the labeling requirements of this European Standard, "Safety of toys", EN71: Part 1:2014+A1:2018, clauses 7, was not conducted.

### **BVCPS (ZHEJIANG) GENERAL CONTACT INFORMATION FOR THIS REPORT**

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#### APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the EN71: Part 1:2014+A1:2018, European Union Guidance Documents, CEN ISO/TR 8124-8:2016 Safety of toys - Part 8: Age determination guidelines and Age Determination Guidelines: Relating Children's Ages to Toy Characteristics and Play Behavior, September, 2002

Note: The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for

testing.

Note: If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products

Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.

### EXPLANATION OF THE ABBREVIATIONS FOR PART 1, 2

Symbol	Explanation
NM	The samples are NOT IN COMPLIANCE WITH the requirement of this Subclause
M	The samples are IN COMPLIANCE WITH the requirement of this Subclause
N/A	Not Applicable
NR	Not Requested
NE	Not Evaluated
NP	None Present
Р	Present
R	Refer to Comment Section of this report

Symbol	Language Present	Symbol	Language Present	Symbol	Language Present
В	Belgian language	G	German language	PR	Portuguese language
D	Danish language	GR	Greek language	S	Spanish language
Е	English language	Н	Dutch language	SD	Swedish language
F	Finnish language	I	Italian language	SZ	Swiss language
FR	French language	N	Norwegian language		



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## MECHANICAL & PHYSICAL PROPERTIES (EN 71: PART 1:2014+A1 :2018)

Subclause	Requirement	Result
4.1	Material cleanliness	М
4.2	Assembly	N/A
4.3	Flexible plastic sheeting	N/A
4.4	Toy Bags	N/A
4.5	Glass	N/A
4.6	Expanding materials	N/A
4.7 & 7.6	Edges	М
4.8 & 7.6	Points and metallic wires	М
4.8e	Splinters	М
4.9	Protruding parts	N/A
4.10.1	Folding and sliding mechanisms	N/A
4.10.2	Driving mechanisms	N/A
4.10.3	Hinges	N/A
4.10.4	Springs	N/A
4.11	Mouth actuated toys and other toys intended to be put in the mouth	N/A
4.12 & 7.3	Balloons	N/A
4.13 & 7.9	Cord of toy kites and other flying toys	N/A
4.14.1	Toys which a child can enter	N/A
4.14.2 & 7.8	Masks and helmets	N/A
4.15.1	Toys propelled by child	
4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16	Toys propelled by child – Instructions for use	N/A
4.15.1.3	Toys propelled by child – Strength	N/A
4.15.1.4	Toys propelled by child – Stability	N/A
4.15.1.5	Toys propelled by child – Braking	N/A
4.15.1.6	Toys propelled by child - Transmission	N/A
4.15.1.7	Toys propelled by child – insertion mark	N/A
4.15.1.8	Electrically-driven ride-on toys	N/A
4.15.2	Toy bicycles	L
4.15.2.2 & 7.15	Toy bicycles – Warnings and instructions for use	N/A
4.15.2.3	Toy bicycles – Braking	N/A
4.15.3 & 7.16 & 7.19	Rocking horses and similar toys	N/A
4.15.4 & 7.16	Toys not propelled by child	N/A
4.15.5 & 7.18	Toy scooters	N/A
4.16	Heavy immobile toys	N/A
4.17.2	All projectiles	N/A
4.17.3 & 7.7	Projectile toys with stored energy	N/A
4.17.4 & 7.26	Certain projectiles toys without stored energy	N/A
4.18 & 7.4	Aquatic toys and inflatable toys	N/A
4.19 & 7.13 & 7.14	Percussion caps	N/A
*4.20.2.1- 4.20.2.8, 4.20.2.10, 4.20.2.12	Acoustics	N/A



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### MECHANICAL & PHYSICAL PROPERTIES (EN 71: PART 1:2014+A1 :2018)

Subclause	Requirement	Result
4.20.2.9, 4.20.2.11 & 7.14	Acoustics – percussion toys & cap-firing toys	N/A
4.21	Toys containing a non-electrical heat source	N/A
4.22 & 7.2	Small balls	N/A
4.23	Magnet	
4.23.2 a, b & c	Toy other than magnetic / electrical experimental sets intended for children over 8 years	N/A
4.23.3 & 7.20	Magnetic / electrical experimental sets intended for children over 8 years	N/A
4.24	Yo-yo ball	N/A
4.25	Toys attached to food	N/A
4.26	Toy Disguise Costumes	N/A
4.27.1	Flying toys – General	N/A
4.27.2 & 7.25.1	Rotors and propellers on flying toys	N/A
4.27.3 & 7.25.2	Rotors and propellers on remote controlled flying toys	N/A
	FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS	
5.1	General	N/A
5.1a	Small parts – as received	N/A
5.1b	Small parts, sharp points, sharp edges – after tests	N/A
5.1c	Cross section <2mm metal points & wires	N/A
5.1e	Toys contain glue	N/A
5.1f	Casing of toys	N/A
5.2	Fillings, coverings and seams	N/A
5.3	Adhesion of plastic sheeting	N/A
5.4.2	Cords and chains in toys intended for children under 18 months	N/A
5.4.3 & 7.22	Cords and chains in toys intended for children of 18 months or over but under 36 months	N/A
5.4.4	Fixed loops, tangled loops and nooses	N/A
5.4.5	Cords and chains on pull along toys	N/A
5.4.6 & 7.21	Electrical cables	N/A
5.4.7	Cross-sectional dimension of certain cords	N/A
5.4.8	Self-retracting cords	N/A
5.4.9 & 7.11 & 7.23	Toys attached to or intended to be strung across a cradle, cot or perambulator	N/A
5.5 & 7.12	Liquid filled toys	N/A
5.6	Electrically driven toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size	N/A
5.9 & 7.17	Monofilament fibres	N/A
5.10	Small balls	N/A
5.11	Play figures	N/A
5.12	Hemispheric shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
5.15 & 7.24	Sledges with cords for pulling	N/A
6	Packaging	N/A



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### MECHANICAL & PHYSICAL PROPERTIES (EN 71: PART 1:2014+A1 :2018)

Subclause	Requirement	Result
	WARNINGS, INSTRUCTIONS FOR USE	
7.1	General	SEE NOTE 2
7.2	Toys not intended for children under 36 months	SEE NOTE 2
7.5	Functional toys	SEE NOTE 2

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section

### REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 1

Sub- clause	Test Method	Sub- clause	Test Method	Sub- clause	Test Method	Sub- clause	Test Method
4.3	8.25.1	4.14.2	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.11, 8.12	4.17.3	8.24.1	5.3	8.4.2.1, 8.25
4.5	8.5, 8.7, 8.11, 8.12	4.15.1.3	8.11, 8.12, 8.21, 8.22	4.17.4	8.24.2	5.4	8.20, 8.36, 8.38, 8.39, 8.40
4.6	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.14	4.15.1.4	8.23.1	4.18	8.2, 8.3, 8.4.2.1	5.5	8.15
4.7	8.11	4.15.1.5	8.26.1	4.20	8.28	5.6	8.29
4.8	8.12, 8.13	4.15.1.8	8.29	4.21	8.30	5.8	8.16
4.9	8.4.2.3, 8.11, 8.12	4.15.2.4	8.26.2	4.22	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.32	5.10	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9, 8.32
4.10.1	8.18.2, 8.18.3	4.15.3	8.21, 8.23.1	4.23	8.2, 8.3, 8.4.2.1, 8.4.2.2, 8.5, 8.6, 8.7, 8.8, 8.34, 8.35	5.11	8.33
4.10.2	8.5, 8.6, 8.7, 8.11, 8.12	4.15.4	8.21, 8.23.1	4.24	8.37	5.12	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9,
4.11	8.2, 8.3, 8.4.2.1, 8.9, 8.17	4.15.5	8.11, 8.12, 8.21, 8.22, 8.26.3, 8.27	4.25	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32.1	5.13	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32
4.13	8.19	4.16	8.23.2	5.1	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.9, 8.11, 8.12		
4.14.1	8.31.1, 8.31.2	4.17.1	8.4.2.3				



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### FLAMMABILITY (EN 71 PART 2: 2020)

Subclause	Requirement	Result
4.1	Cellulose nitrate	NP
4.1	Highly flammable solids	NP
4.1	Surface flash on a piled surface	N/A
4.1	Flammable gases	N/A
4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	N/A
4.2	Toys to be worn on the head	N/A
4.3	Toy disguise costumes and toys intended to be worn by child in play	N/A
4.3	warning on product and packaging (10 - 30 mm/s)	N/A
4.4	Toys intended to be entered by a child	N/A
4.4	warning on product and packaging (10 – 30 mm/s)	N/A
4.5	Soft-filled toys	N/A

### REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.2.2	5.2	4.2.4	5.3	4.3	5.4	4.5	5.5
4.2.3	5.3	4.2.5	5.4	4.4	5.4	-	-



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### Tested Component(s) Breakdown List

Test Item	Description	Location	Style
1	White fabric	-	-
2	White rope	-	-
3	Orange soft plastic	-	-
4	Black sponge with glue	-	-
5	Beige wood	-	-
6	Transparent plastic	-	-
7	Black plastic	-	-
8	Blue ink with sponge	-	-
9	Red ink with sponge	-	-
10	Green ink with sponge	-	-
11	Purple ink with sponge	-	-
12*	Black coating	-	-
13	Black coating with wood stamps base	-	-

### <u>Aromatic Amines Content from Azo Colorants - Regulation (EC) No. 1907/2006 Annex XVII Entry 43, Points 1</u> & 2

I: For textile and others: EN ISO 14362-1:2017.

Test Method: II: For leather: ISO 17234-1: 2020.

III: For textile and others: EN ISO 14362-3:2017; For leather: ISO 17234-2: 2011

Maximum Limit:	30mg/kg
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Tooted Item/s)	Test	Resu	Unit	Conclusion		
Tested Item(s)	Method	Detected Analyte(s)	Conc.	Unit	Conclusion	
1 + 2	I- Colorant extraction	ND	ND	mg/kg	PASS	
1 + 2	I-Direct reduction	ND	ND	mg/kg	PASS	

Note / Key:

ND = Not Detected

mg/kg = milligram per kilogram

Detection Limit (mg/kg):Each 10

### Remark:

- 1. \*Azo colorants that are able to form p-aminoazobenzene, generate aniline and 1,4-phenylenediamine under the condition of test method I. If aniline and/or 1,4-phenylenediamine is not found by test method I, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "Not detected". Otherwise, the test method III will be employed to verify the presence of 4-aminoazobenzene.
- 2. The list of amines in azo dyestuff is summarized in table of Appendix.

1	List of Aromatic Amines Content From Azo Colorants - Regulation (EC) No. 1907/2006 Annex XVII Entry 43, Points 1 & 2						
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.		



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1	o-Toluidine	95-53-4	12	4,4`-Oxydianiline	101-80-4
2	o-Anisidine	90-04-0	13	Benzidine	92-87-5
3	4-Chloroaniline	106-47-8	14	4,4`-Methylenedianiline	101-77-9
4	p-cresidine	120-71-8	15	4,4`-Methylenedi-o-toluidine	838-88-0
5	2,4,5-Trimethylaniline	137-17-7	16	3,3`-Dimethylbenzidine	119-93-7
6	4-Chloro-o-toluidine	95-69-2	17	4,4`-Thiodianiline	139-65-1
7	4-Methyl-m-phenylenediamine	95-80-7	18	3,3`-Dichlorobenzidine	91-94-1
8	4-Methoxy-m-phenylenediamine	615-05-4	19	4,4`-Methylene-bis-(2-chloro-aniline)	101-14-4
9	2-Naphthylamine	91-59-8	20	3,3`-Dimethoxybenzidine	119-90-4
10	4-Aminobiphenyl	92-67-1	21	o-Aminoazotoluene	97-56-3
11	*4-Aminoazobenzene	60-09-3	22	5-Nitro-o-toluidine	99-55-8

### Formaldehyde Release from Wood

**Test Method** : EN 717-3: 1996

Parameter		Result	Maximum
	Unit	5	Allowable Limit
Trial 1	mg/kg	ND	-
Trail 2	mg/kg	ND	-
Average Formaldehyde	mg/kg	ND	80
Moisture Content	%	2.06	-
Conclusion	-	PASS	-

Note / Key:

ND = Not detected % = percent mg/kg = milligram(s) formaldehyde per kilogram

oven-dry board

Detection Limit (mg/kg): 10

### Polycyclic Aromatic Hydrocarbons (PAHs) Content – Regulation (EC) No. 1907/2006 Annex XVII Entry 50, Point 5

**Test Method**: With reference to test method mentioned in German AfPS GS 2019:01 PAK.

			Maximum		
Parameter	Unit	3 + 4	6 + 7	13	Allowable Limit
Benzo (a) anthracene	mg/kg	ND	ND	ND	0.5
Chrysene	mg/kg	ND	ND	ND	0.5
Benzo (b) fluoranthene	mg/kg	ND	ND	ND	0.5
Benzo (j) fluoranthene	mg/kg	ND	ND	ND	0.5
Benzo (k) fluoranthene	mg/kg	ND	ND	ND	0.5
Benzo (e) pyrene	mg/kg	ND	ND	ND	0.5
Benzo (a) pyrene	mg/kg	ND	ND	ND	0.5
Dibenzo (a,h)	mg/kg	ND	ND	ND	0.5



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					1 age 10 of 15
anthracene					
Conclusion	-	PASS	PASS	PASS	-

Note / Key:

ND = Not detected mg/kg = milligram(s) per kilogram = ppm = part(s) per

million

Detection Limit (mg/kg): For individual testing - Each of the listed PAHs(mg/kg):

0.2

For composite testing - Each of the listed PAHs(mg/kg): 0.1

### Pentachlorophenol and its salt and ester (PCP) Content - European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs), Annex I, Part A

**Test Method** : Solvent extraction and analysis by Gas Chromatograph Mass Spectrometer (GC-MS).

Maximum Limit:
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Test Item(s)	Result	Unit	Conclusion
5	ND	mg/kg	PASS

Note / Key: ND = Not Detected mg/kg = milligram per kilogram

Detect limit (mg/kg): 0.05

### Phthalates Content - Reference to regulation (EC) No. 1907/2006 Annex XVII Entry 51 & 52

**Test Method** : Reference to EN 14372:2004.

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	3 + 4	6 + 7	8 + 9	10 + 11
A. For toys and childcare	articles						
DBP	84-74-2	%	<0.1	ND	ND	ND	ND
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DEHP	117-81-7	%	<0.1	ND	ND	ND	ND
DiBP	84-69-5	%	<0.1	ND	ND	ND	ND
B. Additional requirements	s for toys and ch	ildcare articl	es, which can be p	olaced in mo	outh by the c	hildren (Se	e remark)
DnOP	117-84-0	%	<0.1	ND	ND	ND	ND
DINP	28553-12- 0&68515-48- 0	%	<0.1	ND	ND	ND	ND
DIDP	26761-40-0 & 68515-49-1	%	<0.1	ND	ND	ND	ND
Sum of DBP, BBP, DEHP, DIBP		%	<0.1	ND	ND	ND	ND
Sum of DNOP, DIDP, DINP		%	<0.1	ND	ND	ND	ND



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Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result
	-	-	-	12
A. For toys and childcare	articles			
DBP	84-74-2	%	<0.1	ND
BBP	85-68-7	%	<0.1	ND
DEHP	117-81-7	%	<0.1	ND
DiBP	84-69-5	%	<0.1	ND
B. Additional requirement	s for toys and chil	dcare article	s, which can be pla	aced in mouth by the children (See remark)
DnOP	117-84-0	%	<0.1	ND
DINP	28553-12- 0&68515-48- 0	%	<0.1	ND
DIDP	26761-40-0 & 68515-49-1	%	<0.1	ND
Sum of DBP, BBP, DEHP, DIBP		%	<0.1	ND
Sum of DNOP, DIDP, DINP		%	<0.1	ND
Conclusion	-	-	-	PASS

Note / Key: ND = Not Detected Conc. =Concentration

Detection Limit (%): Each 0.005 % = percentage

Remark:

The list of phthalates is summarized in table of Appendix

List	List of Phthalates Content – Reference To Regulation (EC) No. 1907/2006 Annex XVII Entry 51 & 52							
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.			
1	DBP	84-74-2	5	DINP	28553-12- 0&68515-48- 0			
2	BBP	85-68-7	6	DIDP	26761-40-0 & 68515-49- 1			
3	DEHP	117-81-7	7	DiBP	84-69-5			
4	DnOP	117-84-0	-	-	-			

<u>Total Cadmium Content in Plastic Material - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with its Latest Amendment, Entry 23</u>

Test Method : EN 1122: 2001, Method B

Maximum Limit:   100 mg/kg	Maximum Limit:	100 mg/kg
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Test Item(s)	Result	Unit	Conclusion
3 + 4	ND	mg/kg	PASS
6 + 7	ND	mg/kg	PASS

Note / Key:

mg/kg = milligram per kilogram Detection Limit (mg/kg): 10 ND = Not Detected

MDL = Method Detection Limit

Detection Limit (mg/kg). To

### **Total Cd Content & As Client's requirement**

Test Method : The sample is comminuted and digested with acid mixtures, then analyzed by AAS

technique or ICP-OES.

			Result				Maximum
Parameter	Unit MDL	MDL	1 + 2	5	8 + 9	10 + 11	Allowable Limit
Cadmium (Cd)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Note / Key:

ND = Not Detected mg/kg = milligram per kilogram MDL = Method Detection Limit

### Migration of Certain Elements - EN71-3:2019+A1:2021

Test Method:European Standard EN71-3:2019+A1:2021

	1 : :4.	Result (mg/kg)								
Analyte	Limit: Type III	Sample ID								
	Type III	1	2	3	4	5				
Boron (B)	15000	<1500	<1500	<1500	<1500	<1500				
Aluminium (AI)	28130	<2813	<2813	<2813	<2813	<2813				
Chromium III (Cr III)	460	<46	<46	<46	<46	<46				
Chromium VI (Cr VI)	0.053	<0.02	<0.02	<0.02	<0.02	<0.02				
Manganese (Mn)	15000	<1500	<1500	<1500	<1500	<1500				
Cobalt (Co)	130	<13	<13	<13	<13	<13				
Nickel (Ni)	930	<93	<93	<93	<93	<93				
Copper (Cu)	7700	<770	<770	<770	<770	<770				
Zinc (Zn)	46000	<4600	<4600	<4600	<4600	<4600				
Arsenic (As)	47	<4.7	<4.7	<4.7	<4.7	<4.7				
Selenium (Se)	460	<46	<46	<46	<46	<46				
Strontium (Sr)	56000	<5600	<5600	<5600	<5600	<5600				
Cadmium (Cd)	17	<1.7	<1.7	<1.7	<1.7	<1.7				
Tin (Sn)	180000	<18000	<18000	<18000	<18000	<18000				
Organic tin	12	<1.2	<1.2	<1.2	<1.2	<1.2				
Antimony (Sb)	560	<56	<56	<56	<56	<56				



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Barium (Ba)	18750	<1875	<1875	<1875	<1875	<1875
Mercury (Hg)	94	<9.4	<9.4	<9.4	<9.4	<9.4
Lead (Pb)	23	<2.3	<2.3	<2.3	<2.3	<2.3
Conclus	ion	PASS	PASS	PASS	PASS	PASS

		Result	(mg/kg)			
Analyte	Limit: Type III	Sample ID				
	турстт	6	7			
Boron (B)	15000	<1500	<1500			
Aluminium (AI)	28130	<2813	<2813			
Chromium III (Cr III)	460	<46	<46			
Chromium VI (Cr VI)	0.053	<0.02	<0.02			
Manganese (Mn)	15000	<1500	<1500			
Cobalt (Co)	130	<13	<13			
Nickel (Ni)	930	<93	<93			
Copper (Cu)	7700	<770	<770			
Zinc (Zn)	46000	<4600	<4600			
Arsenic (As)	47	<4.7	<4.7			
Selenium (Se)	460	<46	<46			
Strontium (Sr)	56000	<5600	<5600			
Cadmium (Cd)	17	<1.7	<1.7			
Tin (Sn)	180000	<18000	<18000			
Organic tin	12	<1.2	<1.2			
Antimony (Sb)	560	<56	<56			
Barium (Ba)	18750	<1875	<1875			
Mercury (Hg)	94	<9.4	<9.4			
Lead (Pb)	23	<2.3	<2.3			
Conclusio	on	PASS	PASS			

	1	Result (mg/kg)						
Analyte	Limit: Type II	Sample ID						
	турсп	8	9	10	11			
Boron (B)	300	<30	<30	<30	<30			
Aluminium (Al)	560	<56	<56	<56	<56			
Chromium III (Cr III)	9.4	<0.94	<0.94	<0.94	<0.94			
Chromium VI (Cr VI)	0.005	<0.005	<0.005	<0.005	<0.005			
Manganese (Mn)	300	<30	<30	<30	<30			
Cobalt (Co)	2.6	<0.26	<0.26	<0.26	<0.26			
Nickel (Ni)	18.8	<1.88	<1.88	<1.88	<1.88			
Copper (Cu)	156	<15.6	<15.6	<15.6	<15.6			
Zinc (Zn)	938	<93.8	<93.8	<93.8	<93.8			
Arsenic (As)	0.9	<0.09	<0.09	<0.09	<0.09			
Selenium (Se)	9.4	<0.94	<0.94	<0.94	<0.94			
Strontium (Sr)	1125	<112.5	<112.5	<112.5	<112.5			
Cadmium (Cd)	0.3	<0.03	<0.03	<0.03	<0.03			
Tin (Sn)	3750	<375	<375	<375	<375			



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Organic tin	0.2	<0.02	<0.02	<0.02	<0.02
Antimony (Sb)	11.3	<1.13	<1.13	<1.13	<1.13
Barium (Ba)	375	<37.5	<37.5	<37.5	<37.5
Mercury (Hg)	1.9	<0.19	<0.19	<0.19	<0.19
Lead (Pb)	0.5	<0.05	<0.05	<0.05	<0.05
Conclusi	on	PASS	PASS	PASS	PASS

Note / Key:

ND = Not Detected

mg/kg = milligram per kilogram

#### Remark:

- Test Item(s) was (were) tested according to European Standard EN 71-3: 2019 + A1: 2021, Section 8.
- Results of Cr III and Cr VI were reported as sum of soluble chromium content unless further verified.
- Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.
- The pH measured shall be reported after migration if it was outside the range of 1.1 to 1.3.
- European Standard EN 71 Part 3: 2019 + A1: 2021 is currently harmonized under European Parliament and Council Directive 2009/48/EC and will be superseded when European Standard EN 71 Part 3: 2019 + A2: 2024 is harmonized

The received sample(s)(12) contained accessible material(s) of less than 10 milligrams by weight on one single sample, therefore such material(s) was not subject to the EN 71 Pt.3 Migration of certain elements (2009/48/EC / EN 71-3:2019+A1:2021)

<u>Total Cadmium Content in Paints on Painted Article - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with its Latest Amendment, Annex XVII, Entry 23</u>

Test Method : EN 1122: 2001, Method B

Maximum Limit:	1000 mg/kg
----------------	------------

Test Item(s)	Result	Unit	Conclusion
12	ND	mg/kg	PASS

Note / Key: ND = Not Detected

mg/kg = milligram per kilogram MDL = Method Detection Limit Detection Limit (mg/kg):10

Benzene Content in Toys or Parts of Toys - European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Amendment up to EU No. 412/2012, Annex XVII, Entry 5, Point 1

Test Method : Analysis by Headspace Gas Chromatograph Mass Spectrometer (HS-GC-MS).

	Unit MDL		Result				Maximum
Parameter		MDL	3 + 4	6 + 7	8	9	Allowable Limit
Benzene	mg/kg	5	ND	ND	ND	ND	5
Conclusion	-	-	PASS	PASS	PASS	PASS	-



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				Result		Maximum
Parameter	Unit	MDL	10	11	13	Allowable Limit
Benzene	mg/kg	5	ND	ND	ND	5
Conclusion	-	-	PASS	PASS	PASS	-

Note / Key:

ND = Not detected ">" = Greater than %= percent 10000mg/kg=1%

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

EU No.=European Commission Regulation number

Detection Limit (mg/kg):5

### Migration of Certain Elements - EN 71-3:2019+A2:2024

Test Method:EN 71-3:2019+A2:2024

	Limit: Type III	Result (mg/kg)					
Analyte		Sample ID					
		1	2	3	4	5	
Boron (B)	15000	<1500	<1500	<1500	<1500	<1500	
Aluminium (AI)	28130	<2813	<2813	<2813	<2813	<2813	
Chromium III (Cr III)	460	<46	<46	<46	<46	<46	
Chromium VI (Cr VI)	0.053	<0.02	<0.02	<0.02	<0.02	<0.02	
Manganese (Mn)	15000	<1500	<1500	<1500	<1500	<1500	
Cobalt (Co)	130	<13	<13	<13	<13	<13	
Nickel (Ni)	930	<93	<93	<93	<93	<93	
Copper (Cu)	7700	<770	<770	<770	<770	<770	
Zinc (Zn)	46000	<4600	<4600	<4600	<4600	<4600	
Arsenic (As)	47	<4.7	<4.7	<4.7	<4.7	<4.7	
Selenium (Se)	460	<46	<46	<46	<46	<46	
Strontium (Sr)	56000	<5600	<5600	<5600	<5600	<5600	
Cadmium (Cd)	17	<1.7	<1.7	<1.7	<1.7	<1.7	
Tin (Sn)	180000	<18000	<18000	<18000	<18000	<18000	
Organic tin	12	<1.2	<1.2	<1.2	<1.2	<1.2	
Antimony (Sb)	560	<56	<56	<56	<56	<56	
Barium (Ba)	18750	<1875	<1875	<1875	<1875	<1875	
Mercury (Hg)	94	<9.4	<9.4	<9.4	<9.4	<9.4	
Lead (Pb)	23	<2.3	<2.3	<2.3	<2.3	<2.3	
Conclusion		PASS	PASS	PASS	PASS	PASS	

	Limit: - Type III -	Result (mg/kg)		
Analyte		Sample ID		
		6	7	
Boron (B)	15000	<1500	<1500	
Aluminium (Al)	28130	<2813	<2813	
Chromium III (Cr III)	460	<46	<46	



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			rage 10 01 19
Chromium VI (Cr VI)	0.053	<0.02	<0.02
Manganese (Mn)	15000	<1500	<1500
Cobalt (Co)	130	<13	<13
Nickel (Ni)	930	<93	<93
Copper (Cu)	7700	<770	<770
Zinc (Zn)	46000	<4600	<4600
Arsenic (As)	47	<4.7	<4.7
Selenium (Se)	460	<46	<46
Strontium (Sr)	56000	<5600	<5600
Cadmium (Cd)	17	<1.7	<1.7
Tin (Sn)	180000	<18000	<18000
Organic tin	12	<1.2	<1.2
Antimony (Sb)	560	<56	<56
Barium (Ba)	18750	<1875	<1875
Mercury (Hg)	94	<9.4	<9.4
Lead (Pb)	23	<2.3	<2.3
Conclusion		PASS	PASS

	Limit: Type II	Result (mg/kg)					
Analyte		Sample ID					
		8	9	10	11		
Boron (B)	300	<30	<30	<30	<30		
Aluminium (Al)	560	<56	<56	<56	<56		
Chromium III (Cr III)	9.4	<0.94	<0.94	<0.94	<0.94		
Chromium VI (Cr VI)	0.005	<0.005	<0.005	<0.005	<0.005		
Manganese (Mn)	300	<30	<30	<30	<30		
Cobalt (Co)	2.6	<0.26	<0.26	<0.26	<0.26		
Nickel (Ni)	18.8	<1.88	<1.88	<1.88	<1.88		
Copper (Cu)	156	<15.6	<15.6	<15.6	<15.6		
Zinc (Zn)	938	<93.8	<93.8	<93.8	<93.8		
Arsenic (As)	0.9	<0.09	<0.09	<0.09	<0.09		
Selenium (Se)	9.4	<0.94	<0.94	<0.94	<0.94		
Strontium (Sr)	1125	<112.5	<112.5	<112.5	<112.5		
Cadmium (Cd)	0.3	<0.03	<0.03	<0.03	<0.03		
Tin (Sn)	3750	<375	<375	<375	<375		
Organic tin	0.2	<0.02	<0.02	<0.02	<0.02		
Antimony (Sb)	11.3	<1.13	<1.13	<1.13	<1.13		
Barium (Ba)	375	<37.5	<37.5	<37.5	<37.5		
Mercury (Hg)	1.9	<0.19	<0.19	<0.19	<0.19		
Lead (Pb)	0.5	<0.05	<0.05	<0.05	<0.05		
Conclusion		PASS	PASS	PASS	PASS		

Key(s):

Type I = Dry, brittle, powder-like or pliable toy material(s)

Type II = Liquid or sticky toy material(s)

Type III = Scraped-off toy material(s)

Remark(s):
Results of Cr III and Cr VI were reported as sum of soluble chromium content unless further verified.



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- Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.
- The pH measured shall be reported after migration if it was outside the range of 1.1 to 1.3.

  European Standard EN 71 Part 3: 2019 + A1: 2021 is currently harmonized under European Parliament and Council Directive 2009/48/EC and will be superseded when European Standard EN 71-3: 2019 + A2: 2024 is

For component (12), The received sample(s) contained accessible component(s) of less than 10 milligrams by weight on one single sample, therefore such component(s) was (were) not subject to migration of certain elements of European Standard, "EN 71-3:2019+A2:2024 Heavy metals in toy ", as specified in Section 7.1 - Selection of test portions.

### COLOURFASTNESS TO RUBBING(ISO 105-X12:2016)

	2	LIMIT
DRY	4-5	2-3
WET	4-5	2-3
CONCLUSION	PASS	2 0
	1	LIMIT
DRY		
Lengthwise	4-5	2-3
Widthwise	4-5	2-3
WET		
Lengthwise	4-5	2-3
Widthwise	4-5	2-3
CONCLUSION	PASS	-

### **COLOURFASTNESS RATING**

GRADE 5	NEGLIGIBLE OR NO CHANGE OR STAINING
GRADE 4	SLIGHTLY CHANGED OR STAINED
GRADE 3	NOTICEABLY CHANGED OR STAINED
GRADE 2	CONSIDERABLY CHANGED OR STAINED
GRADE 1	MUCH CHANGED OR STAINED



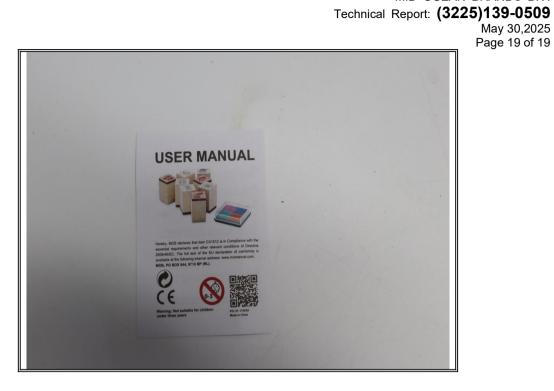
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SAMPLE REFERENCE PHOTO:







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