



TEST REPORT

MID OCEAN BRANDS B.V.

Technical Report: (3225)098-0457

Nov.13,2025

Date of Received:

Apr.08,2025

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Test period:

Apr.08,2025~Nov.13,2025

MID OCEAN BRANDS B.V.

UNIT 711-716, 7/F., TOWER A, 83 KING LAM STREET CHEUNG

SHA WAN, KOWLOON, HONG KONG

SAMPLE INFORMATION:

Sample Description:	24PCS STATIONERY SET	Sample Quantity:	N/A
Vendor:	111041	Style No(s):	MO8249
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 Standard, "Safety of toys", EN71: Part 1:2014+A1:2018, clauses 1-6.	PASS SEE NOTE 2
The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2020	PASS
Formaldehyde Release from Wood	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
Polycyclic Aromatic Hydrocarbons (PAHs) Content – Regulation (EC) No. 1907/2006 Annex XVII Entry 50, Point 5	PASS
Phthalates Content – Reference to regulation (EC) No. 1907/2006 Annex XVII Entry 51 & 52	PASS
Total Cd Content & As Client's requirement	PASS
Migration of Certain Elements - EN71-3:2019+A1:2021	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
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 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

Note:

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

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.

Remark: The report test data with " * "take from report (3225)098-0456 data Jun.05,2025.



This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/>, 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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Seb wang
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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				
P	Present				
R	Refer to Comment Section of this report				
Symbol	Language Present	Symbol	Language Present	Symbol	Language Present
B	Belgian language	G	German language	PR	Portuguese language
D	Danish language	GR	Greek language	S	Spanish language
E	English language	H	Dutch language	SD	Swedish language
F	Finnish language	I	Italian language	SZ	Swiss language
FR	French language	N	Norwegian language		

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

Subclause	Requirement	Result
4.1	Material cleanliness	M
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	M
4.8 & 7.6	Points and metallic wires	M
4.8e	Splinters	M
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	
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

**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	Deep blue crayon	-	-
2	Pink watercolor cake	-	-
3	Silver metal with gold plating	Fold	-
4	Silver metal with gold plating	Shrapnel	-
5	Silver metal with gold plating	screw	-
6	Purple crayon	-	-
7	Deep green crayon	-	-
8	Orange crayon	-	-
9	Red crayon	-	-
10	Black crayon	-	-
11	Brown crayon	-	-
12	Yellow crayon	-	-
13	Purple watercolor cake	-	-
14	Red watercolor cake	-	-
15	Khaki watercolor cake	-	-
16	Yellow watercolor cake	-	-
17	Deep blue watercolor cake	-	-
18	Tan watercolor cake	-	-
19	Blue watercolor cake	-	-
20	Black watercolor cake	-	-
21	Deep green watercolor cake	-	-
22	Green watercolor cake	-	-
23	Orange watercolor cake	-	-
24	Silver metal	screw	-
1*1	Brown wood	Box	-
2*1	Brown wood	color Pencil	-
3*1	Black plastic	Blister case	-
4*1	Purple crayon	crayon	-
5*1	Deep green crayon	crayon	-
6*1	Orange crayon	crayon	-
7*1	Yellow crayon	crayon	-
8*1	Red crayon	crayon	-
9*1	Black crayon	crayon	-
10*1	Brown crayon	crayon	-
11*1	Purple watercolor cake	watercolor cake	-
12*1	Red watercolor cake	watercolor cake	-
13*1	Khaki watercolor cake	watercolor cake	-
14*1	Yellow watercolor cake	watercolor cake	-
15*1	Deep blue watercolor cake	watercolor cake	-
16*1	Tan watercolor cake	watercolor cake	-



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17*1	Blue watercolor cake	watercolor cake	-
18*1	Black watercolor cake	watercolor cake	-
19*1	Deep green watercolor cake	watercolor cake	-
20*1	Orange watercolor cake	watercolor cake	-
21*1	Green watercolor cake	watercolor cake	-
22*1	Red plastic	Pencil sharpener	-
23*1	Black soft plastic	Bristle	-
24*1	White eraser	eraser	-
25*1	Multicolor paper	on crayon	-
26*1	Black coating	color Pencil	-
27*1	Silver metal	Knife	-
28*1	Black pencil core	color Pencil	-

Formaldehyde Release from Wood

Test Method : EN 717-3: 1996

Parameter	Unit	Result		Maximum Allowable Limit
		1*1	2*1	
Trial 1	mg/kg	ND	ND	-
Trail 2	mg/kg	ND	ND	-
Average Formaldehyde	mg/kg	ND	ND	80
Moisture Content	%	3.20	3.06	-
Conclusion	-	PASS	PASS	-

Note / Key :

ND = Not detected% = percent

mg/kg = milligram(s) formaldehyde per kilogram oven-dry board

Detection Limit (mg/kg) : 10

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:	5mg/kg
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Test Item(s)	Result	Unit	Conclusion
1*1	ND	mg/kg	PASS
2*1	ND	mg/kg	PASS

Note / Key:

ND = Not Detected

mg/kg = milligram per kilogram

Detect limit (mg/kg) : 0.05

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.

Parameter	Unit	Result				Maximum Allowable Limit
		1	2	6 + 7 + 8	9 + 10	
Benzo (a) anthracene	mg/kg	ND	ND	ND	ND	0.5
Chrysene	mg/kg	ND	ND	ND	ND	0.5
Benzo (b) fluoranthene	mg/kg	ND	ND	ND	ND	0.5
Benzo (j) fluoranthene	mg/kg	ND	ND	ND	ND	0.5
Benzo (k) fluoranthene	mg/kg	ND	ND	ND	ND	0.5
Benzo (e) pyrene	mg/kg	ND	ND	ND	ND	0.5
Benzo (a) pyrene	mg/kg	ND	ND	ND	ND	0.5
Dibenzo (a,h) anthracene	mg/kg	ND	ND	ND	ND	0.5
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result				Maximum Allowable Limit
		11 + 12	13 + 14 + 15	16 + 17 + 18	19 + 20 + 21	
Benzo (a) anthracene	mg/kg	ND	ND	ND	ND	0.5
Chrysene	mg/kg	ND	ND	ND	ND	0.5
Benzo (b) fluoranthene	mg/kg	ND	ND	ND	ND	0.5
Benzo (j) fluoranthene	mg/kg	ND	ND	ND	ND	0.5
Benzo (k) fluoranthene	mg/kg	ND	ND	ND	ND	0.5
Benzo (e) pyrene	mg/kg	ND	ND	ND	ND	0.5
Benzo (a) pyrene	mg/kg	ND	ND	ND	ND	0.5
Dibenzo (a,h) anthracene	mg/kg	ND	ND	ND	ND	0.5
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result	Maximum Allowable Limit
		22 + 23	
Benzo (a) anthracene	mg/kg	ND	0.5
Chrysene	mg/kg	ND	0.5
Benzo (b) fluoranthene	mg/kg	ND	0.5
Benzo (j) fluoranthene	mg/kg	ND	0.5
Benzo (k) fluoranthene	mg/kg	ND	0.5
Benzo (e) pyrene	mg/kg	ND	0.5
Benzo (a) pyrene	mg/kg	ND	0.5
Dibenzo (a,h) anthracene	mg/kg	ND	0.5
Conclusion	-	PASS	-

Parameter	Unit	Result			Maximum Allowable Limit
		3 *1+ 22*1 + 23*1	24*1	26*1	
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) anthracene	mg/kg	ND	ND	ND	0.5
Conclusion	-	PASS	PASS	PASS	-

Note / Key :

ND = Not detected

Detection Limit (mg/kg):

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

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

For individual testing - Each of the listed PAHs(mg/kg) : 0.2

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			
	-	-	-	1	2	6 + 7 + 8	9 + 10
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 for toys and childcare articles, which can be placed in mouth by the children (See 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
Conclusion	-	-	-	PASS	PASS	PASS	PASS



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Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	11 + 12	13 + 14 + 15	16 + 17 + 18	19 + 20 + 21
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 for toys and childcare articles, which can be placed in mouth by the children (See 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
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result
	-	-	-	22 + 23
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 requirements for toys and childcare articles, which can be placed 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



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Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	3*1 + 22*1 + 23*1	24*1	25*1	26*1
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 for toys and childcare articles, which can be placed in mouth by the children (See 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
Conclusion	-	-	-	PASS	PASS	PASS	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 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	-	-	-

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 .

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			1	2	3	4	
Cadmium (Cd)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			1*1 + 2*1	4*1 + 5*1 + 6*1	7*1 + 8*1	9*1 + 10*1	
Cadmium (Cd)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			11*1 + 12*1 + 13*1	14*1 + 15*1 + 16*1	17*1 + 18*1 + 19*1	20*1 + 21*1	
Cadmium (Cd)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result			Maximum Allowable Limit
			25*1	27*1	28*1	
Cadmium (Cd)	mg/kg	10	ND	ND	ND	100
Conclusion	-	-	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

Analyte	Limit: Type I	Result (mg/kg)	
		Sample ID	
		1	2
Boron (B)	1200	<120	<120
Aluminium (Al)	2250	<225	<225
Chromium III (Cr III)	37.5	<3.75	<3.75
Chromium VI (Cr VI)	0.02	<0.005	<0.005
Manganese (Mn)	1200	<120	<120
Cobalt (Co)	10.5	<1.05	<1.05
Nickel (Ni)	75	<7.5	<7.5
Copper (Cu)	622.5	<62.25	<62.25
Zinc (Zn)	3750	<375	<375
Arsenic (As)	3.8	<0.38	<0.38
Selenium (Se)	37.5	<3.75	<3.75
Strontium (Sr)	4500	<450	<450
Cadmium (Cd)	1.3	<0.13	0.178
Tin (Sn)	15000	<1500	<1500
Organic tin	0.9	<0.09	<0.09
Antimony (Sb)	45	<4.5	<4.5
Barium (Ba)	1500	<150	<150



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Mercury (Hg)	7.5	<0.75	<0.75
Lead (Pb)	2	<0.2	<0.2
Conclusion		PASS	PASS

Analyte	Limit: Type III	Result (mg/kg)			
		Sample ID			
		3	4	5	24
Boron (B)	15000	<1500	<1500	<1500	<1500
Aluminium (Al)	28130	<2813	<2813	<2813	<2813
Chromium III (Cr III)	460	<46	<46	<46	<46
Chromium VI (Cr VI)	0.053	<0.02	<0.02	<0.02	<0.02
Manganese (Mn)	15000	<1500	<1500	<1500	<1500
Cobalt (Co)	130	<13	<13	<13	<13
Nickel (Ni)	930	<93	<93	<93	<93
Copper (Cu)	7700	<770	<770	<770	<770
Zinc (Zn)	46000	<4600	<4600	<4600	<4600
Arsenic (As)	47	<4.7	<4.7	<4.7	<4.7
Selenium (Se)	460	<46	<46	<46	<46
Strontium (Sr)	56000	<5600	<5600	<5600	<5600
Cadmium (Cd)	17	<1.7	<1.7	<1.7	<1.7
Tin (Sn)	180000	<18000	<18000	<18000	<18000
Organic tin	12	<1.2	<1.2	<1.2	<1.2
Antimony (Sb)	560	<56	<56	<56	<56
Barium (Ba)	18750	<1875	<1875	<1875	<1875
Mercury (Hg)	94	<9.4	<9.4	<9.4	<9.4
Lead (Pb)	23	<2.3	<2.3	<2.3	<2.3
Conclusion		PASS	PASS	PASS	PASS

Analyte	Limit: Type III	Result (mg/kg)				
		Sample ID				
		1*1	2*1	3*1	22*1	23*1
Boron (B)	15000	<1500	<1500	<1500	<1500	<1500
Aluminium (Al)	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



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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

Analyte	Limit: Type III	Result (mg/kg)			
		Sample ID			
		24*1	25*1	26*1	27*1
Boron (B)	15000	<1500	<1500	<1500	<1500
Aluminium (Al)	28130	<2813	<2813	<2813	<2813
Chromium III (Cr III)	460	<46	<46	<46	<46
Chromium VI (Cr VI)	0.053	<0.02	<0.02	<0.02	<0.02
Manganese (Mn)	15000	<1500	<1500	<1500	<1500
Cobalt (Co)	130	<13	<13	<13	<13
Nickel (Ni)	930	<93	<93	<93	<93
Copper (Cu)	7700	<770	<770	<770	<770
Zinc (Zn)	46000	<4600	<4600	<4600	<4600
Arsenic (As)	47	<4.7	<4.7	<4.7	<4.7
Selenium (Se)	460	<46	<46	<46	<46
Strontium (Sr)	56000	<5600	<5600	<5600	<5600
Cadmium (Cd)	17	<1.7	<1.7	<1.7	<1.7
Tin (Sn)	180000	<18000	<18000	<18000	<18000
Organic tin	12	<1.2	<1.2	<1.2	<1.2
Antimony (Sb)	560	<56	<56	<56	<56
Barium (Ba)	18750	<1875	<1875	<1875	<1875
Mercury (Hg)	94	<9.4	<9.4	<9.4	<9.4
Lead (Pb)	23	<2.3	<2.3	<2.3	<2.3
Conclusion		PASS	PASS	PASS	PASS

Analyte	Limit: Type I	Result (mg/kg)				
		Sample ID				
		4*1	5*1	6*1	7*1	8*1
Boron (B)	1200	<120	<120	<120	<120	<120
Aluminium (Al)	2250	<225	<225	<225	<225	<225
Chromium III (Cr III)	37.5	<3.75	<3.75	<3.75	<3.75	<3.75
Chromium VI (Cr VI)	0.02	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn)	1200	<120	<120	<120	<120	<120
Cobalt (Co)	10.5	<1.05	<1.05	<1.05	<1.05	<1.05
Nickel (Ni)	75	<7.5	<7.5	<7.5	<7.5	<7.5
Copper (Cu)	622.5	<62.25	<62.25	<62.25	<62.25	<62.25
Zinc (Zn)	3750	<375	<375	<375	<375	<375
Arsenic (As)	3.8	<0.38	<0.38	<0.38	<0.38	<0.38
Selenium (Se)	37.5	<3.75	<3.75	<3.75	<3.75	<3.75



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Strontium (Sr)	4500	<450	<450	<450	<450	<450
Cadmium (Cd)	1.3	<0.13	<0.13	<0.13	<0.13	<0.13
Tin (Sn)	15000	<1500	<1500	<1500	<1500	<1500
Organic tin	0.9	<0.09	<0.09	<0.09	<0.09	<0.09
Antimony (Sb)	45	<4.5	<4.5	<4.5	<4.5	<4.5
Barium (Ba)	1500	<150	<150	<150	<150	<150
Mercury (Hg)	7.5	<0.75	<0.75	<0.75	<0.75	<0.75
Lead (Pb)	2	<0.2	<0.2	<0.2	<0.2	<0.2
Conclusion		PASS	PASS	PASS	PASS	PASS

Analyte	Limit: Type I	Result (mg/kg)				
		Sample ID				
		9*1	10*1	11*1	12*1	13*1
Boron (B)	1200	<120	<120	<120	<120	<120
Aluminium (Al)	2250	<225	<225	<225	<225	<225
Chromium III (Cr III)	37.5	<3.75	<3.75	<3.75	<3.75	<3.75
Chromium VI (Cr VI)	0.02	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn)	1200	<120	<120	<120	<120	<120
Cobalt (Co)	10.5	<1.05	<1.05	<1.05	<1.05	<1.05
Nickel (Ni)	75	<7.5	<7.5	<7.5	<7.5	<7.5
Copper (Cu)	622.5	<62.25	<62.25	<62.25	<62.25	<62.25
Zinc (Zn)	3750	<375	<375	<375	<375	<375
Arsenic (As)	3.8	<0.38	<0.38	<0.38	<0.38	<0.38
Selenium (Se)	37.5	<3.75	<3.75	<3.75	<3.75	<3.75
Strontium (Sr)	4500	<450	<450	<450	<450	<450
Cadmium (Cd)	1.3	<0.13	<0.13	<0.13	<0.13	<0.13
Tin (Sn)	15000	<1500	<1500	<1500	<1500	<1500
Organic tin	0.9	<0.09	<0.09	<0.09	<0.09	<0.09
Antimony (Sb)	45	<4.5	<4.5	<4.5	<4.5	<4.5
Barium (Ba)	1500	<150	<150	<150	<150	<150
Mercury (Hg)	7.5	<0.75	<0.75	<0.75	<0.75	<0.75
Lead (Pb)	2	<0.2	<0.2	<0.2	<0.2	<0.2
Conclusion		PASS	PASS	PASS	PASS	PASS

Analyte	Limit: Type I	Result (mg/kg)				
		Sample ID				
		14*1	15*1	16*1	17*1	18*1
Boron (B)	1200	<120	<120	<120	<120	<120
Aluminium (Al)	2250	<225	<225	<225	<225	<225
Chromium III (Cr III)	37.5	<3.75	<3.75	<3.75	<3.75	<3.75
Chromium VI (Cr VI)	0.02	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn)	1200	<120	<120	<120	<120	<120
Cobalt (Co)	10.5	<1.05	<1.05	<1.05	<1.05	<1.05
Nickel (Ni)	75	<7.5	<7.5	<7.5	<7.5	<7.5
Copper (Cu)	622.5	<62.25	<62.25	<62.25	<62.25	<62.25



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Zinc (Zn)	3750	<375	<375	<375	<375	<375
Arsenic (As)	3.8	<0.38	<0.38	<0.38	<0.38	<0.38
Selenium (Se)	37.5	<3.75	<3.75	<3.75	<3.75	<3.75
Strontium (Sr)	4500	<450	<450	<450	<450	<450
Cadmium (Cd)	1.3	<0.13	<0.13	<0.13	<0.13	0.134
Tin (Sn)	15000	<1500	<1500	<1500	<1500	<1500
Organic tin	0.9	<0.09	<0.09	<0.09	<0.09	<0.09
Antimony (Sb)	45	<4.5	<4.5	<4.5	<4.5	<4.5
Barium (Ba)	1500	<150	<150	<150	<150	<150
Mercury (Hg)	7.5	<0.75	<0.75	<0.75	<0.75	<0.75
Lead (Pb)	2	<0.2	<0.2	<0.2	<0.2	0.395
Conclusion		PASS	PASS	PASS	PASS	PASS

Analyte	Limit: Type I	Result (mg/kg)			
		Sample ID			
		19*1	20*1	21*1	28*1
Boron (B)	1200	<120	<120	<120	<120
Aluminium (Al)	2250	<225	<225	<225	<225
Chromium III (Cr III)	37.5	<3.75	<3.75	<3.75	<3.75
Chromium VI (Cr VI)	0.02	<0.005	<0.005	<0.005	<0.005
Manganese (Mn)	1200	<120	<120	<120	<120
Cobalt (Co)	10.5	<1.05	<1.05	<1.05	<1.05
Nickel (Ni)	75	<7.5	<7.5	<7.5	<7.5
Copper (Cu)	622.5	<62.25	<62.25	<62.25	<62.25
Zinc (Zn)	3750	<375	<375	<375	<375
Arsenic (As)	3.8	<0.38	<0.38	<0.38	<0.38
Selenium (Se)	37.5	<3.75	<3.75	<3.75	<3.75
Strontium (Sr)	4500	<450	<450	<450	<450
Cadmium (Cd)	1.3	<0.13	<0.13	<0.13	<0.13
Tin (Sn)	15000	<1500	<1500	<1500	<1500
Organic tin	0.9	<0.09	<0.09	<0.09	<0.09
Antimony (Sb)	45	<4.5	<4.5	<4.5	<4.5
Barium (Ba)	1500	<150	<150	<150	<150
Mercury (Hg)	7.5	<0.75	<0.75	<0.75	<0.75
Lead (Pb)	2	<0.2	<0.2	<0.2	0.946
Conclusion		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



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harmonized.

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).

Parameter	Unit	MDL	Result		Maximum Allowable Limit
			1	2	
Benzene	mg/kg	5	ND	ND	5
Conclusion	-	-	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			3*1 + 22*1 + 23*1	4*1 + 5*1 + 6*1	7*1 + 8*1	9*1 + 10*1	
Benzene	mg/kg	5	ND	ND	ND	ND	5
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			11*1 + 12*1 + 13*1	14*1 + 15*1 + 16*1	17*1 + 18*1 + 19*1	20*1 + 21*1	
Benzene	mg/kg	5	ND	ND	ND	ND	5
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			24*1	25*1	26*1	28*1	
Benzene	mg/kg	5	ND	ND	ND	ND	5
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Note / Key:

mg/kg = milligram(s) per kilogram = ppm = part(s) per million
Detection Limit (mg/kg) :5

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

EU No.=European Commission Regulation number

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

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

Analyte	Limit: Type I	Result (mg/kg)	
		Sample ID	
		1	2
Boron (B)	1200	<120	<120
Aluminium (Al)	2250	<225	<225
Chromium III (Cr III)	37.5	<3.75	<3.75
Chromium VI (Cr VI)	0.02	<0.005	<0.005
Manganese (Mn)	1200	<120	<120
Cobalt (Co)	10.5	<1.05	<1.05
Nickel (Ni)	75	<7.5	<7.5
Copper (Cu)	622.5	<62.25	<62.25
Zinc (Zn)	3750	<375	<375
Arsenic (As)	3.8	<0.38	<0.38
Selenium (Se)	37.5	<3.75	<3.75
Strontium (Sr)	4500	<450	<450
Cadmium (Cd)	1.3	<0.13	0.178
Tin (Sn)	15000	<1500	<1500
Organic tin	0.9	<0.09	<0.09
Antimony (Sb)	45	<4.5	<4.5
Barium (Ba)	1500	<150	<150
Mercury (Hg)	7.5	<0.75	<0.75
Lead (Pb)	2	<0.2	<0.2
Conclusion		PASS	PASS

Analyte	Limit: Type III	Result (mg/kg)			
		Sample ID			
		3	4	5	24
Boron (B)	15000	<1500	<1500	<1500	<1500
Aluminium (Al)	28130	<2813	<2813	<2813	<2813
Chromium III (Cr III)	460	<46	<46	<46	<46
Chromium VI (Cr VI)	0.053	<0.02	<0.02	<0.02	<0.02
Manganese (Mn)	15000	<1500	<1500	<1500	<1500
Cobalt (Co)	130	<13	<13	<13	<13
Nickel (Ni)	930	<93	<93	<93	<93
Copper (Cu)	7700	<770	<770	<770	<770
Zinc (Zn)	46000	<4600	<4600	<4600	<4600
Arsenic (As)	47	<4.7	<4.7	<4.7	<4.7
Selenium (Se)	460	<46	<46	<46	<46
Strontium (Sr)	56000	<5600	<5600	<5600	<5600
Cadmium (Cd)	17	<1.7	<1.7	<1.7	<1.7
Tin (Sn)	180000	<18000	<18000	<18000	<18000



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Organic tin	12	<1.2	<1.2	<1.2	<1.2
Antimony (Sb)	560	<56	<56	<56	<56
Barium (Ba)	18750	<1875	<1875	<1875	<1875
Mercury (Hg)	94	<9.4	<9.4	<9.4	<9.4
Lead (Pb)	23	<2.3	<2.3	<2.3	<2.3
Conclusion		PASS	PASS	PASS	PASS

Analyte	Limit: Type III	Result (mg/kg)				
		Sample ID				
		1*1	2*1	3*1	22*1	23*1
Boron (B)	15000	<1500	<1500	<1500	<1500	<1500
Aluminium (Al)	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

Analyte	Limit: Type III	Result (mg/kg)			
		Sample ID			
		24*1	25*1	26*1	27*1
Boron (B)	15000	<1500	<1500	<1500	<1500
Aluminium (Al)	28130	<2813	<2813	<2813	<2813
Chromium III (Cr III)	460	<46	<46	<46	<46
Chromium VI (Cr VI)	0.053	<0.02	<0.02	<0.02	<0.02
Manganese (Mn)	15000	<1500	<1500	<1500	<1500
Cobalt (Co)	130	<13	<13	<13	<13
Nickel (Ni)	930	<93	<93	<93	<93
Copper (Cu)	7700	<770	<770	<770	<770
Zinc (Zn)	46000	<4600	<4600	<4600	<4600
Arsenic (As)	47	<4.7	<4.7	<4.7	<4.7
Selenium (Se)	460	<46	<46	<46	<46



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Strontium (Sr)	56000	<5600	<5600	<5600	<5600
Cadmium (Cd)	17	<1.7	<1.7	<1.7	<1.7
Tin (Sn)	180000	<18000	<18000	<18000	<18000
Organic tin	12	<1.2	<1.2	<1.2	<1.2
Antimony (Sb)	560	<56	<56	<56	<56
Barium (Ba)	18750	<1875	<1875	<1875	<1875
Mercury (Hg)	94	<9.4	<9.4	<9.4	<9.4
Lead (Pb)	23	<2.3	<2.3	<2.3	<2.3
Conclusion		PASS	PASS	PASS	PASS

Analyte	Limit: Type I	Result (mg/kg)				
		Sample ID				
		4*1	5*1	6*1	7*1	8*1
Boron (B)	1200	<120	<120	<120	<120	<120
Aluminium (Al)	2250	<225	<225	<225	<225	<225
Chromium III (Cr III)	37.5	<3.75	<3.75	<3.75	<3.75	<3.75
Chromium VI (Cr VI)	0.02	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn)	1200	<120	<120	<120	<120	<120
Cobalt (Co)	10.5	<1.05	<1.05	<1.05	<1.05	<1.05
Nickel (Ni)	75	<7.5	<7.5	<7.5	<7.5	<7.5
Copper (Cu)	622.5	<62.25	<62.25	<62.25	<62.25	<62.25
Zinc (Zn)	3750	<375	<375	<375	<375	<375
Arsenic (As)	3.8	<0.38	<0.38	<0.38	<0.38	<0.38
Selenium (Se)	37.5	<3.75	<3.75	<3.75	<3.75	<3.75
Strontium (Sr)	4500	<450	<450	<450	<450	<450
Cadmium (Cd)	1.3	<0.13	<0.13	<0.13	<0.13	<0.13
Tin (Sn)	15000	<1500	<1500	<1500	<1500	<1500
Organic tin	0.9	<0.09	<0.09	<0.09	<0.09	<0.09
Antimony (Sb)	45	<4.5	<4.5	<4.5	<4.5	<4.5
Barium (Ba)	1500	<150	<150	<150	<150	<150
Mercury (Hg)	7.5	<0.75	<0.75	<0.75	<0.75	<0.75
Lead (Pb)	2	<0.2	<0.2	<0.2	<0.2	<0.2
Conclusion		PASS	PASS	PASS	PASS	PASS

Analyte	Limit: Type I	Result (mg/kg)				
		Sample ID				
		9*1	10*1	11*1	12*1	13*1
Boron (B)	1200	<120	<120	<120	<120	<120
Aluminium (Al)	2250	<225	<225	<225	<225	<225
Chromium III (Cr III)	37.5	<3.75	<3.75	<3.75	<3.75	<3.75
Chromium VI (Cr VI)	0.02	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn)	1200	<120	<120	<120	<120	<120
Cobalt (Co)	10.5	<1.05	<1.05	<1.05	<1.05	<1.05
Nickel (Ni)	75	<7.5	<7.5	<7.5	<7.5	<7.5
Copper (Cu)	622.5	<62.25	<62.25	<62.25	<62.25	<62.25



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Zinc (Zn)	3750	<375	<375	<375	<375	<375
Arsenic (As)	3.8	<0.38	<0.38	<0.38	<0.38	<0.38
Selenium (Se)	37.5	<3.75	<3.75	<3.75	<3.75	<3.75
Strontium (Sr)	4500	<450	<450	<450	<450	<450
Cadmium (Cd)	1.3	<0.13	<0.13	<0.13	<0.13	<0.13
Tin (Sn)	15000	<1500	<1500	<1500	<1500	<1500
Organic tin	0.9	<0.09	<0.09	<0.09	<0.09	<0.09
Antimony (Sb)	45	<4.5	<4.5	<4.5	<4.5	<4.5
Barium (Ba)	1500	<150	<150	<150	<150	<150
Mercury (Hg)	7.5	<0.75	<0.75	<0.75	<0.75	<0.75
Lead (Pb)	2	<0.2	<0.2	<0.2	<0.2	<0.2
Conclusion		PASS	PASS	PASS	PASS	PASS

Analyte	Limit: Type I	Result (mg/kg)				
		Sample ID				
		14*1	15*1	16*1	17*1	18*1
Boron (B)	1200	<120	<120	<120	<120	<120
Aluminium (Al)	2250	<225	<225	<225	<225	<225
Chromium III (Cr III)	37.5	<3.75	<3.75	<3.75	<3.75	<3.75
Chromium VI (Cr VI)	0.02	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Mn)	1200	<120	<120	<120	<120	<120
Cobalt (Co)	10.5	<1.05	<1.05	<1.05	<1.05	<1.05
Nickel (Ni)	75	<7.5	<7.5	<7.5	<7.5	<7.5
Copper (Cu)	622.5	<62.25	<62.25	<62.25	<62.25	<62.25
Zinc (Zn)	3750	<375	<375	<375	<375	<375
Arsenic (As)	3.8	<0.38	<0.38	<0.38	<0.38	<0.38
Selenium (Se)	37.5	<3.75	<3.75	<3.75	<3.75	<3.75
Strontium (Sr)	4500	<450	<450	<450	<450	<450
Cadmium (Cd)	1.3	<0.13	<0.13	<0.13	<0.13	0.134
Tin (Sn)	15000	<1500	<1500	<1500	<1500	<1500
Organic tin	0.9	<0.09	<0.09	<0.09	<0.09	<0.09
Antimony (Sb)	45	<4.5	<4.5	<4.5	<4.5	<4.5
Barium (Ba)	1500	<150	<150	<150	<150	<150
Mercury (Hg)	7.5	<0.75	<0.75	<0.75	<0.75	<0.75
Lead (Pb)	2	<0.2	<0.2	<0.2	<0.2	0.395
Conclusion		PASS	PASS	PASS	PASS	PASS

Analyte	Limit: Type I	Result (mg/kg)			
		Sample ID			
		19*1	20*1	21*1	28*1
Boron (B)	1200	<120	<120	<120	<120
Aluminium (Al)	2250	<225	<225	<225	<225
Chromium III (Cr III)	37.5	<3.75	<3.75	<3.75	<3.75
Chromium VI (Cr VI)	0.02	<0.005	<0.005	<0.005	<0.005
Manganese (Mn)	1200	<120	<120	<120	<120



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Cobalt (Co)	10.5	<1.05	<1.05	<1.05	<1.05
Nickel (Ni)	75	<7.5	<7.5	<7.5	<7.5
Copper (Cu)	622.5	<62.25	<62.25	<62.25	<62.25
Zinc (Zn)	3750	<375	<375	<375	<375
Arsenic (As)	3.8	<0.38	<0.38	<0.38	<0.38
Selenium (Se)	37.5	<3.75	<3.75	<3.75	<3.75
Strontium (Sr)	4500	<450	<450	<450	<450
Cadmium (Cd)	1.3	<0.13	<0.13	<0.13	<0.13
Tin (Sn)	15000	<1500	<1500	<1500	<1500
Organic tin	0.9	<0.09	<0.09	<0.09	<0.09
Antimony (Sb)	45	<4.5	<4.5	<4.5	<4.5
Barium (Ba)	1500	<150	<150	<150	<150
Mercury (Hg)	7.5	<0.75	<0.75	<0.75	<0.75
Lead (Pb)	2	<0.2	<0.2	<0.2	0.946
Conclusion		PASS	PASS	PASS	PASS

Key(s):

Type II = Liquid or sticky toy material(s)

Type I = Dry, brittle, powder-like or pliable 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.
- 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 harmonized.

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

Test Method : EN 1122: 2001, Method B

Maximum Limit:	100 mg/kg
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Test Item(s)	Result	Unit	Conclusion
3*1 + 22*1 + 23*1	ND	mg/kg	PASS
24*1	ND	mg/kg	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

Test Method : EN 1122: 2001, Method B

Maximum Limit:	1000 mg/kg
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Test Item(s)	Result	Unit	Conclusion
26*1	ND	mg/kg	PASS



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Note / Key:

mg/kg = milligram per kilogram

Detection Limit (mg/kg): 10

ND = Not Detected

MDL = Method Detection Limit



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SAMPLE REFERENCE PHOTO:



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