



TEST REPORT

MID OCEAN BRANDS B.V.

Technical Report: (3224)088-0149
Date Received: March 28,2024

April 16, 2024
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MID OCEAN BRANDS B.V.
7/F., KINGS TOWER, 111 KING LAM STREET, CHEUNG SHA
WAN, KOWLOON, HONG KONG

SAMPLE INFORMATION:

Sample Description:	30PCS CRAYONS SET	Sample Quantity:	N/A
Vendor:	111041	Style No.(s):	IT2349
Manufacturer:		SKN/SKU No.:	N/A
Buyer:	N/A	PO No.:	N/A
Labeled Age Grade:	NOT PRESENT	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:	EU
UPC Code:	N/A	Color:	N/A

Above sample information was provided and confirmed by customers, BV is not responsible for its accuracy or completeness.

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 1-7.	PASS
The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2020	PASS
Labeling requirements of "CE marking, manufacturer/ Importer name and address, and product identification" under "Directive 2009/48/EC Safety of Toy.	PASS See note 2&3
Migration of Certain Elements - EN71-3:2019+A1:2021	PASS
Phthalates Content – Reference to regulation (EC) No. 1907/2006 Annex XVII Entry 51 & 52	PASS
Total Cd Content & As Applicant's requirement	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 Amendments up to EU No. 412/2012, Annex XVII, Entry 5, Point 1	PASS

- Note:
- 1.The sample is tested as "Over 3 years of age" per the client's request .
 2. The manufacturer / importer information was present on the packaging only. It has to be noted that, according to TSD 2009/48/EC , the manufacturers/ importer shall indicate their name, registered trade name or registered trade mark and the address at which they can be contacted on the toy, or, where that is not possible, on its packaging or in a document accompanying the toy.
 - 3.The product identification is present on the packaging only. It has to be noted that, according to TSD 2009/48/EC, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification. Or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.
 - 4.Samples are provided by customers.
 - 5.The tested part of the sample was specified by client.
 - 6.The test conclusion was given based on the results of tested part.

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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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REMARK

If there are questions or concerns on this report, please contact the following persons:

Customer service

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BUREAU VERITAS TESTING TECHNICAL SERVICE (ZHEJIANG) CO.,LTD

Mary Huang

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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		



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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



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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	M
7.2	Toys not intended for children under 36 months	M
7.5	Functional toys	N/A

2009/48/EC General Labeling Requirement

Requirement	Result
CE Mark	M
Manufacturer/ Importer name and address	M SEE NOTE 2
Product Identification	SEE NOTE 3

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	Black crayon	-	-
2	Dark tan crayon	-	-
3	Deep tan crayon	-	-
4	Tan crayon	-	-
5	Light tan crayon	-	-
6	Brown crayon	-	-
7	Deep grey crayon	-	-
8	Light grey crayon	-	-
9	Dark blue crayon	-	-
10	Deep blue crayon	-	-
11	Blue crayon	-	-
12	Light blue crayon	-	-
13	Dark green crayon	-	-
14	Deep green crayon	-	-
15	Green crayon	-	-
16	Light green crayon	-	-
17	Deep grass green crayon	-	-
18	Light grass green crayon	-	-
19	Red crayon	-	-
20	Deep rose red crayon	-	-
21	Deep pink crayon	-	-
22	Light pink crayon	-	-
23	Deep orange crayon	-	-
24	Light orange crayon	-	-
25	Nude crayon	-	-
26	Deep yellow crayon	-	-
27	Light yellow crayon	-	-
28	Deep purple crayon	-	-
29	Light purple crayon	-	-
30	White crayon	-	-
31	Multicolor paper	-	-
32	Brown paperboard	-	-



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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	3	4	5
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



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Analyte	Limit: Type I	Result (mg/kg)				
		Sample ID				
		6	7	8	9	10
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				
		11	12	13	14	15
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



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Analyte	Limit: Type I	Result (mg/kg)				
		Sample ID				
		16	17	18	19	20
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	258
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				
		21	22	23	24	25
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	0.317	<0.2	0.352	0.250
Conclusion		PASS	PASS	PASS	PASS	PASS



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Analyte	Limit: Type I	Result (mg/kg)				
		Sample ID				
		26	27	28	29	30
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	0.212	0.237	0.316	0.264	0.232
Conclusion		PASS	PASS	PASS	PASS	PASS

Analyte	Limit: Type III	Result (mg/kg)	
		Sample ID	
		31	32
Boron (B)	15000	<1500	<1500
Aluminium (Al)	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	7.34
Conclusion		PASS	PASS



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Note / Key:

Req. = Requirement 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 is currently harmonized under European Parliament and Council Directive 2009/48/EC and will be superseded when European Standard EN 71 Part 3: 2019 + A1: 2021 is harmonized.
- 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, "Safety of Toys, EN 71 Part 3: 2019 + A1: 2021", as specified in Section 7.1 - Selection of test portions.
- * denotes as result(s) was (were) verified by :
- For organic tin content - Test method with reference to European Standard EN 71-3: 2019 + A1: 2021 and reported as tributyltin (TBT) cation.
- For Cr VI content - In house ion chromatography analysis.

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

Test Method : Reference to EN 14372:2004.

Parameter	Unit	Result		Maximum Allowable Limit
		31	32	
A. For toys and childcare articles	-	-	-	-
DBP	mg/kg	ND	ND	-
BBP	mg/kg	ND	ND	-
DEHP	mg/kg	ND	ND	-
DiBP	mg/kg	ND	ND	-
B. Additional requirements for toys and childcare articles, which can be placed in mouth by the children (See remark)	-	-	-	-
DnOP	mg/kg	ND	ND	-
DINP	mg/kg	ND	ND	-
DIDP	mg/kg	ND	ND	-
Sum of DBP, BBP, DEHP, DiBP	mg/kg	ND	ND	1000
Sum of DNOP, DIDP, DINP	mg/kg	ND	ND	1000
Conclusion	-	PASS	PASS	-

Note / Key:

ND = Not Detected

Conc. = Concentration

Detection Limit (mg/kg): Each 50



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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	Dibutyl phthalate (DBP)	84-74-2	5	Di-iso-nonyl phthalate (DINP)	28553-12-0&68515-48-0
2	Butylbenzylphthalate (BBP)	85-68-7	6	Di-iso-decyl phthalate (DIDP)	26761-40-0 & 68515-49-1
3	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	7	Diisobutyl phthalate	84-69-5
4	Di-n-octyl phthalate (DNOP)	117-84-0	-	-	-

Total Cd Content & As Applicant's requirement

Test Method : The sample is comminuted and digested with acid mixtures, then analyzed by AAS technique or ICP-OES .

Parameter	Unit	Result				Maximum Allowable Limit
		1 + 15 + 23	2 + 3 + 4	5 + 6 + 7	8 + 9 + 10	
Cadmium (Cd)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result				Maximum Allowable Limit
		11 + 12 + 13	14 + 19 + 26	16 + 17 + 18	20 + 21 + 22	
Cadmium (Cd)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result			Maximum Allowable Limit
		24 + 25 + 27	28 + 29 + 30	31	
Cadmium (Cd)	mg/kg	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	-

Note / Key:
 ND = Not Detected

Detection Limit (mg/kg) : 10



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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 Amendments up to EU No. 412/2012, Annex XVII, Entry 5, Point 1

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

Parameter	Unit	Result				Maximum Allowable Limit
		1 + 15 + 23	2 + 3 + 4	5 + 6 + 7	8 + 9 + 10	
Benzene	mg/kg	ND	ND	ND	ND	5
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result				Maximum Allowable Limit
		11 + 12 + 13	14 + 19 + 26	16 + 17 + 18	20 + 21 + 22	
Benzene	mg/kg	ND	ND	ND	ND	5
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result			Maximum Allowable Limit
		24 + 25 + 27	28 + 29 + 30	31 + 32	
Benzene	mg/kg	ND	ND	ND	5
Conclusion	-	PASS	PASS	PASS	-

Note / Key:
ND = Not Detected

Detection Limit (mg/kg) : 5



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SAMPLE REFERENCE PHOTO:



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