

TEST REPORT

APPLICANT : 52TOYS DEVELOPMENT CO., LTD.

ADDRESS : RM4, 16/F, HO KING COMM CTR, 2-16 FAYUEN ST
MONGKOK KLN, HONGKONG

TESTED SAMPLE DESCRIPTION : NOOK-WASTELAND PARK

TESTED ITEM NO. : 24CB524NK02

AGE REQUESTED ON APPLICATION FORM : 15+

LABELED AGE GRADE : 15+

AGE GRADE APPLIED IN TESTING : OVER 8 YEARS

SAMPLE RECEIVED DATE : 14-May-2024

TEST PERIOD : 17-May-2024 to 22-May-2024

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	RESULT
BS EN 71 - 1: 2014 + A1: 2018 Safety of Toys - Mechanical and physical properties.	PASS
Labeling Requirement for United Kingdom - The Toys (Safety) Regulations 2011 and The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019	See note
BS EN 71 - 2: 2020 Safety of Toys - Flammability	PASS
BS EN 71 - 3: 2019 + A1: 2021 Safety of Toys - Migration of Certain Elements	PASS
EN 71 - 1: 2014 + A1: 2018 Safety of Toys - Mechanical and physical properties	PASS
Labeling requirement (Directive 2009/48/EC)	See note
EN 71 - 2: 2020 Safety of Toys - Flammability	PASS
EN 71 - 3: 2019 + A1: 2021 Safety of Toys - Migration of Certain Elements	PASS
Total Cadmium Content according to Entry 23 of Annex XVII to Regulation (EC) No 1907/2006 and its amendments REACH Regulation (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) No 2016/217	PASS
Phthalates according to Entry 51 & 52 of Regulation (EC) No 552/2009 and Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006	PASS
Polycyclic Aromatic Hydrocarbons (PAHs) according to the Entry 50 of Annex XVII to REACH Regulation (EC) No 1907/2006, and its amendment Regulation (EU) No 1272/2013	PASS
Organotin Compounds according to Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006	PASS
ASTM F963-23 Physical and Mechanical Hazards	PASS
ASTM F963-23 Flammability of Toys	PASS
ASTM F963-23 Migration of Certain Elements	PASS
ASTM F963-23 Total Lead Content	PASS
ASTM F963-23 Phthalates	PASS
As specified in the mechanical hazards requirements of the tested sections of Consumer Product Safety Commission 16 CFR CH. II	PASS
As Specified in Title 16 Part 1500.44 Flammability test on Solid of the tested sections of Consumer Product Safety Commission 16 CFR CH. II	PASS
Tracking Labels for Children's Products, CPSIA Section 103	PASS
Total Lead Content according to US Consumer Product Safety Improvement Act 2008 (CPSIA)	PASS
Total Lead Content according to California Proposition 65, Alameda Superior Court, RG07356892	PASS
Total Lead Content according to US 16 CFR Part 1303	PASS

TEST REQUESTED	RESULT
US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	PASS
Phthalates according to US California Proposition 65 and Assembly Bill AB 1108.	PASS
The mechanical hazards requirements of the tested sections of Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 amended by SOR/2018-138 and Schedule 2.	PASS
The flammability requirements of the tested sections of Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 amended by SOR/2018-138.	PASS
Section 23: Total Lead Content according to Canada Toys Regulations SOR/2011-17 and Amendments (Including SOR/2022-122)	PASS
Section 23: Total Mercury Content according to Canada Toys Regulations SOR/2011-17 and Amendments (Including SOR/2022-122)	PASS
Section 23: Leachable Heavy Metal contents according to Canada Toys Regulations SOR/2011-17 and Amendments (Including SOR/2022-122)	PASS
Canada Phthalates Regulations SOR/2016-188	PASS

The above sample(s) and sample information was/were submitted and identified on behalf of the applicant. Eurofins will not be liable for the authenticity of the information. This test report is valid for the tested sample only. Without permission of the test center this test report is not permitted to be duplicated in extracts.

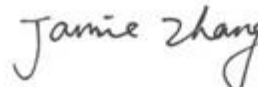
Unless otherwise required by the applicant or method/regulation, decision rule in this report did not consider the measurement uncertainty.

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

SIGNED FOR AND ON BEHALF OF
EUROFINS TESTING TECHNOLOGY (SHENZHEN) CO., LTD.



Coco Luo
Senior Lab Manager

Jamie Zhang
Toy Testing Manager

TESTED SAMPLE PHOTO(S)

A

EFSN24050758-C-0101

COMPONENT LIST

Component No.	Component	Material	Color	Sample No.
1	Coating on headgear (PStock-up Day)	Coating	Red, silvery and grey	A
2	Coating on headgear (PStock-up Day)	Coating	Dull white	A
3	Coating on rotary knob and shoes (PStock-up Day)	Coating	Dull rubricans and white	A
4	Coating on rotary knob (PStock-up Day)	Coating	Orange-yellow	A
5	Coating on face, hands, legs and feet (PStock-up Day, Camping, Arrival, Camouflage, Vitality, Patrol, Hunting Squad, Hello)	Coating	Pink and orange	A
6	Coating on eyebrow (PStock-up Day, Camping, Arrival, Camouflage, Vitality, Patrol, Hunting Squad, Hello)	Coating	Pale brown	A
7	Coating on clothes (PStock-up Day)	Coating	Coffee, dark brown and red	A
8	Coating on pants (PStock-up Day)	Coating	Deep grey and silvery	A
9	Coating on basket (PStock-up Day)	Coating	Yellow, brown and blue	A
10	Coating on goods (PStock-up Day)	Coating	Blue, red, white and light brown	A
11	Coating on goods (PStock-up Day)	Coating	Light brown	A
12	Coating on goods (PStock-up Day)	Coating	Silvery	A
13	Coating on goods (PStock-up Day)	Coating	Light yellow, pale brown, white and dull pink	A
14	Coating on goods (PStock-up Day)	Coating	Cyan	A
15	Coating on clothes (Camping)	Coating	Orange, dark brown and white	A
16	Coating on pants (Camping)	Coating	Grey and orange	A
17	Coating on shoes (Camping)	Coating	Brown, dull silvery and silvery	A
18	Coating on water glass and stool (Camping)	Coating	Dull silvery, dark brown and white	A
19	Coating on plate (Camping)	Coating	Dull silvery, brown and purple	A
20	Coating on cat (Camping, Arrival, Hunting Squad)	Coating	Multi-color	A
21	Coating on clothes (Arrival)	Coating	Light brown, dark brown and dark green	A
22	Coating on pants and base (Arrival, Camouflage, Vitality, Hunting Squad)	Coating	White, dark brown and silvery	A
23	Coating on shoes (Arrival)	Coating	Yellow, white and black	A
24	Coating on trunk (Arrival)	Coating	Multi-color	A
25	Coating on headgear (Arrival)	Coating	Multi-color	A

TO BE CONTINUED

Component No.	Component	Material	Color	Sample No.
26	Coating on bird's nest (Arrival)	Coating	Pale brown and dark grey	A
27	Coating on bird (Arrival)	Coating	Multi-color	A
28	Coating on clothes (Camouflage)	Coating	Dark red, yellow and pale brown	A
29	Coating on shoes (Camouflage)	Coating	Dark brown, white and golden	A
30	Coating on crocodile (Camouflage)	Coating	Multi-color	A
31	Coating on lotus leaf (Camouflage)	Coating	Green and yellow	A
32	Coating on head of cat (Camouflage)	Coating	Multi-color	A
33	Coating on body of cat (Camouflage)	Coating	Light green	A
40	Coating on clothes (Vitality)	Coating	Green, yellow and dark brown	A
41	Coating on flower (Vitality)	Coating	Dark red	A
42	Coating on hair (Vitality)	Coating	Light yellow	A
43	Coating on hedgehog and apple stem (Vitality)	Coating	Dull purple	A
44	Coating on hedgehog (Vitality)	Coating	Fleshcolor and black	A
45	Coating on apple (Vitality)	Coating	Dark fuchsia	A
46	Coating on base (Vitality)	Coating	Pale brown and silvery	A
47	Coating on coat and binding of headgear (Patrol)	Coating	Multi-color	A
48	Coating on lothes and pants (Patrol)	Coating	Bluish violet and purple	A
49	Coating on sleeves and hat (Patrol)	Coating	Orange-yellow, purple, white and dark brown	A
50	Coating on headgear (Patrol)	Coating	Multi-color	A
51	Coating on trumpet (Patrol)	Coating	White and red	A
52	Coating on shoes (Patrol)	Coating	Multi-color	A
53	Coating on balance car (Patrol)	Coating	Multi-color	A
54	Coating on outermost layer of balance car, wheel and branch (Patrol)	Coating	Dull brown	A
55	Coating on bird (Patrol)	Coating	Multi-color	A
56	Coating on coat (Hunting Squad)	Coating	Blue, dark brown and dull yellow	A
57	Coating on clothes (Hunting Squad)	Coating	Deep blue	A
58	Coating on shoes (Hunting Squad)	Coating	Dull black, white and brown	A
59	Coating on main body of bird and string (Hunting Squad)	Coating	White and black	A
60	Coating on beak (Hunting Squad)	Coating	Yellow	A
61	Coating on feet of bird (Hunting Squad)	Coating	Erythrins	A
62	Coating on handle of string (Hunting Squad)	Coating	Brown	A
63	Coating on disc (Hunting Squad)	Coating	Transparent blue	A
64	Coating on clothes (Hello)	Coating	Multi-color	A

TO BE CONTINUED

Component No.	Component	Material	Color	Sample No.
65	Coating on clothes and shoes (Hello)	Coating	Dark petwer, dull white, brown and silvery	A
66	Coating on blinder (Hello)	Coating	Dull black and dark grey	A
67	Coating on basket (Hello)	Coating	Brown and dark purple	A
68	Coating on bottle (Hello)	Coating	Black, orange-yellow and white	A
69	Coating on standing sign (Hello)	Coating	Silvery, brown and dark brown	A
70	Coating on standing sign and pole (Hello)	Coating	Green and pale brown	A
71	Coating on base (Hello)	Coating	Dark green	A
72	Coating on rattan (Hello)	Coating	Light green	A
73	All figure and accessories (PStock-up Day, Camping, Arrival, Camouflage, Vitality, Patrol, Hunting Squad, Hello)	Soft plastic	Dull white	A
74	Face, hands, legs and feet (PStock-up Day, Camping, Arrival, Camouflage, Vitality, Patrol, Hunting Squad, Hello)	Soft plastic	Fleshcolor	A
75	Eyes, stool, teeth of crocodile, lotus leaf, beak, handle of string and disc (PStock-up Day, Camping, Arrival, Camouflage, Vitality, Patrol, Hunting Squad, Hello)	Plastic	Transparent	A
76	Headgear and basket (PStock-up Day)	Plastic	White	A
77	Base and balance car (Vitality, Patrol, Hello)	Plastic	Apricot	A
78	Blinder (Hello)	Plastic/glue	Yellow/transparent	A
79	Card (PStock-up Day, Camping, Arrival, Camouflage, Vitality, Patrol, Hunting Squad, Hello)	Plastic/paper/printing	Transparent/white/multi-color	A
80	Headgear (PStock-up Day)	Metal	Silvery	A
81	Hair (PStock-up Day, Camping, Arrival, Camouflage, Vitality, Patrol, Hunting Squad, Hello)	Flocking	Yellow	A
83	Coating on main body (PStock-up Day)	Coating	Multi-color	A
84	Coating on main body (Camping)	Coating	Multi-color	A
85	Coating on main body (Arrival)	Coating	Multi-color	A
86	Coating on main body (Camouflage)	Coating	Multi-color	A
88	Coating on main body (Vitality)	Coating	Multi-color	A
89	Coating on main body (Patrol)	Coating	Multi-color	A
90	Coating on main body (Hunting Squad)	Coating	Multi-color	A
91	Coating on main body (Hello)	Coating	Multi-color	A
92	Eyes (PStock-up Day, Camping, Arrival, Camouflage, Vitality, Patrol, Hunting Squad, Hello)	Plastic/coating	Transparent/black and white	A

TO BE CONTINUED

TEST RESULT

BS EN 71 - 1: 2014 + A1: 2018 Safety of Toys - Mechanical and physical properties.

Test Request: BS EN 71 - 1: 2014 + A1: 2018 Safety of Toys - Mechanical and physical properties.

Section	Description	Result
4	General requirements	
4.1	Material cleanliness (by visual assessment)	P
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	Edges	P
4.8	Points and Metallic Wires	P
4.9	Protruding parts	N/A
4.10	Parts moving against each other	
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	Balloons	N/A
4.13	Cords of toy kites and other flying toys	N/A
4.14	Enclosures	
4.14.1	Toys which a child can enter	N/A
4.14.2	Masks and helmets	N/A
4.15	Toys intended to bear the mass of a child	
4.15.1	Toys propelled by the child or by other means	N/A
4.15.2	Toy bicycles	N/A
4.15.3	Rocking horses and similar toys	N/A
4.15.4	Toys not propelled by a child	N/A
4.15.5	Toys scooters	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectiles toys	
4.17.1	General	N/A
4.17.2	All projectiles	N/A
4.17.3	Projectile toy with stored energy	N/A
4.17.4	Certain projectile toys without stored energy	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	
4.20.2.1	General	N/A
4.20.2.2	Close-to-the-ear toys	N/A
4.20.2.3	Table-top or floor toys	N/A
4.20.2.4	Hand-held toys	N/A
4.20.2.5	Toys using headphones or earphones	N/A
4.20.2.6	Rattles	N/A
4.20.2.7	Squeeze toys	N/A
4.20.2.8	Pull-along or push toys	N/A

TO BE CONTINUED

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TEST RESULT

Section	Description	Result
4.20.2.9	Percussion toys	N/A
4.20.2.10	Wind toys	N/A
4.20.2.11	Cap-firing toys	N/A
4.20.2.12	Voice toys	N/A
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	N/A
4.24	Yo-yo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy disguise costumes	N/A
4.27	Flying toys	
4.27.1	General	N/A
4.27.2	Rotors and propellers on flying toys	N/A
4.27.3	Rotors and propellers on remote controlled flying toys	N/A
5	Toys intended for children under 36 months	
5.1	General requirements	N/A
5.2	Soft-filled toys and soft-filled parts of a toy	N/A
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.5	Liquid-filled toys	N/A
5.6	Speed limitation of electrically-driven ride-on toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A
5.9	Toys comprising 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	Sledges with cords for pulling	N/A
6	Packaging	P
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	N/A
7.3	Latex Balloons	N/A
7.4	Aquatic toys	N/A
7.5	Functional Toys	N/A
7.6	Hazardous sharp functional edges and points	N/A
7.7	Projectiles toys	N/A
7.8	Imitation protective masks and helmets	N/A
7.9	Toy kites	N/A
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	N/A
7.11	Toys intended to be strung across a cradle, cot, or perambulator	N/A
7.12	Liquid-filled teethers	N/A
7.13	Percussion caps specifically designed for use in toys	N/A
7.14	Acoustics	N/A
7.15	Toys bicycles	N/A

TO BE CONTINUED

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TEST RESULT

Section	Description	Result
7.16	Toys intended to bear the mass of a child	N/A
7.17	Toys comprising monofilament fibres	N/A
7.18	Toy scooters	N/A
7.19	Rocking horses and similar toys	N/A
7.20	Magnetic/electrical experimental sets	N/A
7.21	Toy with electrical cables exceeding 300mm in length	N/A
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	N/A
7.23	Toys intended to be attached to a cradle, cot or perambulator	N/A
7.24	Sledges with cords for pulling	N/A
7.25	Flying toys	
7.25.1	Flying toys	N/A
7.25.2	Remote controlled flying toys	N/A
7.26	Improvised projectiles	N/A

Remark:

P = Pass

F = Fail

N/A = Not Applicable

Labeling Requirement for United Kingdom - The Toys (Safety) Regulations 2011 and The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019

Test Request: Labeling Requirement for United Kingdom - The Toys (Safety) Regulations 2011 and The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019

Labeling Content	Location	Conclusion
UKCA Mark	Packaging	Present
Importer's Name & Address	None	Absent
Manufacturer's Name & Address	Packaging	Present
Product ID	Packaging	Present
Washing/Cleaning Instruction	N/A	N/A

Remark:

N/A = Not Applicable

Note:

- 1.The name or registered trade name or registered trade mark and address (single contact point, it must be highlighting if more address) of importer should be presented in easily legible and clearly visible on the toy itself or where that is not possible due to the size or nature of the toy, that the required information is provided on the packaging or in a document accompanying the toy.
- 2.The identification number (type or batch or serial or model number or other element) should be presented in easily legible and clearly visible on product itself or where that is not possible due to the size or nature of the toy, that the required information is provided on the packaging or in a document accompanying the toy.

TO BE CONTINUED

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TEST RESULT

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

Test Request: BS EN 71 - 2: 2020 Safety of Toys - Flammability

Section	Description	Result
4	Requirements	
4.1	General requirements	P
4.2	Toys to be worn on the head	N/A
4.3	Toy disguise costumes and toys intended to be worn by a child in play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Soft-filled toys	N/A

Remark:

P = Pass

F = Fail

N/A = Not Applicable

TO BE CONTINUED

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TEST RESULT

BS EN 71 - 3 : 2019 + A1: 2021 Migration of Certain Elements(Category III)

Test Request: BS EN 71 - 3: 2019 + A1: 2021 Safety of Toys - Migration of Certain Elements

Test Method: With reference to BS EN 71 - 3: 2019 + A1: 2021: Migration of certain elements.

Test Item(s):	Unit	Result							
		1	2(*1)	3(*1)	4(*2)	5(*1)	6(*2)	7(*1)	8(*1)
Mass of trace amount (mg)		-	70.3	33.3	<10	71.1	<10	58.0	39.2
Aluminium(Al)	mg/kg	115	260	172	-	19	-	83	27
Antimony(Sb)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Barium(Ba)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Boron(B)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Copper(Cu)	mg/kg	ND	ND	18	-	ND	-	ND	ND
Lead(Pb)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Manganese(Mn)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Mercury(Hg)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Strontium(Sr)	mg/kg	27	ND	ND	-	ND	-	12	ND
Tin(Sn)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Zinc(Zn)	mg/kg	ND	ND	14	-	26	-	16	12
Chromium(Cr)	mg/kg	0.87	0.37	0.42	-	0.22	-	0.31	0.17
Organic Tin	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	-	ND	-	ND	ND

TO BE CONTINUED

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TEST RESULT

Test Item(s):	Unit	Result							
		9	10(*1)	11(*1)	12(*1)	13(*1)	14(*1)	15	16(*1)
Mass of trace amount (mg)		-	31.8	34.0	58.4	38.5	31.5	-	91.5
Aluminium(Al)	mg/kg	335	108	24	102	72	216	131	150
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Barium(Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Copper(Cu)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Manganese(Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Mercury(Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Strontium(Sr)	mg/kg	ND	ND	ND	ND	ND	ND	24	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Zinc(Zn)	mg/kg	10	12	ND	20	15	ND	21	14
Chromium(Cr)	mg/kg	0.38	0.25	0.17	0.16	0.18	0.16	0.64	0.40
Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

Test Item(s):	Unit	Result							
		17(*1)	18(*1)	19(*1)	20(*1)	21	22	23	24(*1)
Mass of trace amount (mg)		59.8	44.9	42.6	64.4	-	-	-	99.3
Aluminium(Al)	mg/kg	79	625	413	78	107	110	505	83
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Barium(Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Copper(Cu)	mg/kg	10	ND	ND	ND	ND	ND	16	ND
Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Manganese(Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Mercury(Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Strontium(Sr)	mg/kg	ND	ND	ND	ND	12	ND	ND	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Zinc(Zn)	mg/kg	14	ND	ND	11	16	12	25	19
Chromium(Cr)	mg/kg	0.17	0.36	0.12	0.30	0.60	0.24	0.47	0.27
Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

TO BE CONTINUED

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TEST RESULT

Test Item(s):	Unit	Result							
		25	26	27(*1)	28(*1)	29	30	31(*1)	32(*1)
Mass of trace amount (mg)		-	-	29.4	95.6	-	-	68.1	61.8
Aluminium(Al)	mg/kg	471	142	36	69	540	303	16	47
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Barium(Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Copper(Cu)	mg/kg	13	ND	ND	ND	ND	ND	ND	ND
Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Manganese(Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Mercury(Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Strontium(Sr)	mg/kg	11	ND	ND	14	ND	ND	ND	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Zinc(Zn)	mg/kg	23	19	ND	21	19	17	ND	ND
Chromium(Cr)	mg/kg	0.33	0.34	0.20	0.85	0.79	0.54	0.74	0.15
Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

Test Item(s):	Unit	Result							
		33(*1)	40(*1)	41(*1)	42(*1)	43(*1)	44(*2)	45(*2)	46(*1)
Mass of trace amount (mg)		36.2	56.6	15.4	63.8	33.3	<10	<10	95.3
Aluminium(Al)	mg/kg	45	78	ND	245	22	-	-	265
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Barium(Ba)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Copper(Cu)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Manganese(Mn)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Mercury(Hg)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Strontium(Sr)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Zinc(Zn)	mg/kg	ND	14	ND	13	ND	-	-	ND
Chromium(Cr)	mg/kg	0.41	0.58	0.22	0.21	0.17	-	-	0.32
Organic Tin	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	ND	ND	-	-	ND

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TEST RESULT

Test Item(s):	Unit	Result							
		47(*1)	48(*1)	49(*1)	50	51(*1)	52(*1)	53	54(*1)
Mass of trace amount (mg)		73.6	42.1	72.9	-	38.6	24.9	-	79.4
Aluminium(Al)	mg/kg	160	25	276	245	138	79	245	56
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Barium(Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Copper(Cu)	mg/kg	12	ND	ND	28	ND	18	39	ND
Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Manganese(Mn)	mg/kg	ND	ND	11	ND	ND	ND	ND	ND
Mercury(Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Strontium(Sr)	mg/kg	ND	ND	ND	ND	ND	ND	11	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	ND	6.3	ND
Zinc(Zn)	mg/kg	16	ND	24	20	15	12	24	18
Chromium(Cr)	mg/kg	0.46	0.21	0.65	0.46	0.53	0.19	0.39	0.38
Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

Test Item(s):	Unit	Result							
		55(*1)	56	57(*1)	58(*1)	59	60(*1)	61(*1)	62(*1)
Mass of trace amount (mg)		25.0	-	41.2	73.5	-	11.6	20.2	38.1
Aluminium(Al)	mg/kg	144	355	32	49	269	16	ND	12
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Barium(Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Copper(Cu)	mg/kg	14	ND	ND	ND	19	ND	ND	ND
Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Manganese(Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Mercury(Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Strontium(Sr)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Zinc(Zn)	mg/kg	13	25	ND	11	35	ND	ND	ND
Chromium(Cr)	mg/kg	0.23	1.27	0.26	0.30	0.45	0.18	0.18	0.26
Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

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TEST RESULT

Test Item(s):	Unit	Result							
		63(*1)	64	65(*1)	66(*1)	67(*1)	68(*1)	69(*1)	70(*1)
Mass of trace amount (mg)		12.9	-	87.4	74.7	31.7	18.4	66.8	39.3
Aluminium(Al)	mg/kg	ND	155	89	31	21	16	2398	100
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Barium(Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Copper(Cu)	mg/kg	ND	ND	18	ND	ND	ND	ND	ND
Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Manganese(Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Mercury(Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Strontium(Sr)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Zinc(Zn)	mg/kg	ND	15	25	14	ND	ND	16	12
Chromium(Cr)	mg/kg	0.35	0.88	1.06	0.25	0.12	0.08	0.30	0.80
Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

Test Item(s):	Unit	Result							
		71	72	73	74	75	76	77	78
Mass of trace amount (mg)		-	-	-	-	-	-	-	-
Aluminium(Al)	mg/kg	447	320	ND	ND	ND	ND	ND	ND
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Barium(Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Copper(Cu)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Manganese(Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Mercury(Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Strontium(Sr)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Zinc(Zn)	mg/kg	ND	20	ND	ND	ND	ND	ND	ND
Chromium(Cr)	mg/kg	0.59	0.39	0.07	ND	ND	ND	ND	ND
Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

TO BE CONTINUED

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TEST RESULT

Test Item(s):	Unit	Result	
		79	81
Mass of trace amount (mg)		-	-
Aluminium(Al)	mg/kg	ND	71
Antimony(Sb)	mg/kg	ND	ND
Arsenic(As)	mg/kg	ND	ND
Barium(Ba)	mg/kg	ND	ND
Boron(B)	mg/kg	ND	ND
Cadmium(Cd)	mg/kg	ND	ND
Cobalt(Co)	mg/kg	ND	ND
Copper(Cu)	mg/kg	ND	ND
Lead(Pb)	mg/kg	ND	ND
Manganese(Mn)	mg/kg	ND	ND
Mercury(Hg)	mg/kg	ND	ND
Nickel(Ni)	mg/kg	ND	ND
Selenium(Se)	mg/kg	ND	ND
Strontium(Sr)	mg/kg	19	ND
Tin(Sn)	mg/kg	ND	ND
Zinc(Zn)	mg/kg	ND	ND
Chromium(Cr)	mg/kg	0.17	0.21
Organic Tin	mg/kg	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND

Note:

- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected
- MDL = Method Detection Limit
- If migration of chromium exceeded the screening limit of Chromium (VI), the migration of Chromium (VI) was verified.
- If migration of tin exceeded the screening limit of organic tin, the migration of organic tin was verified.
- Migration of organic tin is calculated by adding the migration values expressed as tributyl tin for all the single organic tin compounds.

Remarks:

- *1. The weight of sample marked (*1) available was less than 100mg, but greater than 10mg, so result was calculated as if 100mg of the sample was available.
- *2. The weight of sample marked (*2) available was less than 10mg, so the test for soluble heavy metal content was not performed.

TO BE CONTINUED

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TEST RESULT

Limits – MDLs per category type:

Test Item(s):	Unit	Limit	MDL	Limit	MDL	Limit	MDL
Category Type		I		II		III	
Soluble Aluminium (Al)	mg/kg	2250	10	560	10	28130	10
Soluble Antimony (Sb)	mg/kg	45	10	11.3	5	560	10
Soluble Arsenic (As)	mg/kg	3.8	0.5	0.9	0.4	47	10
Soluble Barium (Ba)	mg/kg	1500	10	375	10	18750	10
Soluble Boron (B)	mg/kg	1200	10	300	10	15000	10
Soluble Cadmium (Cd)	mg/kg	1.3	0.5	0.3	0.1	17	8
Soluble Cobalt (Co)	mg/kg	10.5	1	2.6	1	130	10
Soluble Copper(Cu)	mg/kg	622.5	10	156	10	7700	10
Soluble Lead (Pb)	mg/kg	2.0	1	0.5	0.2	23	10
Soluble Manganese (Mn)	mg/kg	1200	10	300	10	15000	10
Soluble Mercury (Hg)	mg/kg	7.5	1	1.9	0.8	94	10
Soluble Nickel (Ni)	mg/kg	75	10	18.8	9	930	10
Soluble Selenium (Se)	mg/kg	37.5	1	9.4	1	460	10
Soluble Strontium (Sr)	mg/kg	4500	10	1125	10	56000	10
Soluble Tin (Sn)	mg/kg	15000	0.37	3750	0.08	180000	4.9
Soluble Zinc (Zn)	mg/kg	3750	10	938	10	46000	10
Soluble Chromium	mg/kg	-	0.02	-	0.005	-	0.05
Soluble Organic Tin	mg/kg	0.9	0.1	0.2	0.05	12	0.1
Soluble Chromium VI (Cr VI)	mg/kg	0.02	0.01	0.005	0.002	0.053	0.025
Soluble Chromium III (Cr III)	mg/kg	37.5	5	9.4	4	460	5

Category I: dry, brittle, powder-like or pliable toy material

Category II: liquid or sticky toy material

Category III: scrapped-off toy material

“-” = Not Regulated

TO BE CONTINUED

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TEST RESULT

EN 71 - 1: 2014 + A1: 2018 Safety of Toys - Mechanical and physical properties

Test Request: EN 71 - 1: 2014 + A1: 2018 Safety of Toys - Mechanical and physical properties

Section	Description	Result
4	General requirements	
4.1	Material cleanliness (by visual assessment)	P
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	Edges	P
4.8	Points and Metallic Wires	P
4.9	Protruding parts	N/A
4.10	Parts moving against each other	
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	Balloons	N/A
4.13	Cords of toy kites and other flying toys	N/A
4.14	Enclosures	
4.14.1	Toys which a child can enter	N/A
4.14.2	Masks and helmets	N/A
4.15	Toys intended to bear the mass of a child	
4.15.1	Toys propelled by the child or by other means	N/A
4.15.2	Toy bicycles	N/A
4.15.3	Rocking horses and similar toys	N/A
4.15.4	Toys not propelled by a child	N/A
4.15.5	Toys scooters	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectiles toys	
4.17.1	General	N/A
4.17.2	All projectiles	N/A
4.17.3	Projectile toy with stored energy	N/A
4.17.4	Certain projectile toys without stored energy	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	
4.20.2.1	General	N/A
4.20.2.2	Close-to-the-ear toys	N/A
4.20.2.3	Table-top or floor toys	N/A
4.20.2.4	Hand-held toys	N/A
4.20.2.5	Toys using headphones or earphones	N/A
4.20.2.6	Rattles	N/A
4.20.2.7	Squeeze toys	N/A

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TEST RESULT

Section	Description	Result
4.20.2.8	Pull-along or push toys	N/A
4.20.2.9	Percussion toys	N/A
4.20.2.10	Wind toys	N/A
4.20.2.11	Cap-firing toys	N/A
4.20.2.12	Voice toys	N/A
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	N/A
4.24	Yo-yo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy disguise costumes	N/A
4.27	Flying toys	
4.27.1	General	N/A
4.27.2	Rotors and propellers on flying toys	N/A
4.27.3	Rotors and propellers on remote controlled flying toys	N/A
5	Toys intended for children under 36 months	
5.1	General requirements	N/A
5.2	Soft-filled toys and soft-filled parts of a toy	N/A
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.5	Liquid-filled toys	N/A
5.6	Speed limitation of electrically-driven ride-on toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A
5.9	Toys comprising 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	Sledges with cords for pulling	N/A
6	Packaging	P
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	N/A
7.3	Latex Balloons	N/A
7.4	Aquatic toys	N/A
7.5	Functional Toys	N/A
7.6	Hazardous sharp functional edges and points	N/A
7.7	Projectiles toys	N/A
7.8	Imitation protective masks and helmets	N/A
7.9	Toy kites	N/A
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	N/A
7.11	Toys intended to be strung across a cradle, cot, or perambulator	N/A
7.12	Liquid-filled teethingers	N/A
7.13	Percussion caps specifically designed for use in toys	N/A
7.14	Acoustics	N/A

TO BE CONTINUED

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TEST RESULT

Section	Description	Result
7.15	Toys bicycles	N/A
7.16	Toys intended to bear the mass of a child	N/A
7.17	Toys comprising monofilament fibres	N/A
7.18	Toy scooters	N/A
7.19	Rocking horses and similar toys	N/A
7.20	Magnetic/electrical experimental sets	N/A
7.21	Toy with electrical cables exceeding 300mm in length	N/A
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	N/A
7.23	Toys intended to be attached to a cradle, cot or perambulator	N/A
7.24	Sledges with cords for pulling	N/A
7.25	Flying toys	
7.25.1	Flying toys	N/A
7.25.2	Remote controlled flying toys	N/A
7.26	Improvised projectiles	N/A

Remark:

P = Pass F = Fail N/A = Not Applicable

Labeling requirement (Directive 2009/48/EC)

Test Request: Labeling requirement (Directive 2009/48/EC)

Labeling Content	Location	Conclusion
CE Mark	Packaging	Present
Importer's Name & Address	None	Absent
Manufacturer's Name & Address	Packaging	Present
Product ID	Packaging	Present
Washing/Cleaning Instruction	N/A	N/A

Remark:

N/A = Not Applicable

Note:

The name or registered trade name or registered trade mark and address (single contact point, it must be highlighting if more address) of importer should be presented in easily legible and clearly visible on the toy itself or where that is not possible due to the size or nature of the toy, that the required information is provided on the packaging or in a document accompanying the toy.

TO BE CONTINUED

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TEST RESULT

EN 71 - 2: 2020 Safety of Toys - Flammability

Test Request: EN 71 - 2: 2020 Safety of Toys - Flammability

Section	Description	Result
4	Requirements	
4.1	General requirements	P
4.2	Toys to be worn on the head	N/A
4.3	Toy disguise costumes and toys intended to be worn by a child in play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Soft-filled toys	N/A

Remark:

P = Pass

F = Fail

N/A = Not Applicable

TO BE CONTINUED

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TEST RESULT

EN 71 - 3 : 2019 + A1: 2021 Migration of Certain Elements(Category III)

Test Request: EN 71 - 3: 2019 + A1: 2021 Safety of Toys - Migration of Certain Elements
Test Method: With reference to EN 71 - 3: 2019 + A1: 2021: Migration of certain elements.

Test Item(s):	Unit	Result							
		1	2(*3)	3(*3)	4(*4)	5(*3)	6(*4)	7(*3)	8(*3)
Mass of trace amount (mg)		-	70.3	33.3	<10	71.1	<10	58.0	39.2
Aluminium(Al)	mg/kg	115	260	172	-	19	-	83	27
Antimony(Sb)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Barium(Ba)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Boron(B)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Copper(Cu)	mg/kg	ND	ND	18	-	ND	-	ND	ND
Lead(Pb)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Manganese(Mn)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Mercury(Hg)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Strontium(Sr)	mg/kg	27	ND	ND	-	ND	-	12	ND
Tin(Sn)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Zinc(Zn)	mg/kg	ND	ND	14	-	26	-	16	12
Chromium(Cr)	mg/kg	0.87	0.37	0.42	-	0.22	-	0.31	0.17
Organic Tin	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	-	ND	-	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	-	ND	-	ND	ND

TO BE CONTINUED

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TEST RESULT

Test Item(s):	Unit	Result							
		9	10(*3)	11(*3)	12(*3)	13(*3)	14(*3)	15	16(*3)
Mass of trace amount (mg)		-	31.8	34.0	58.4	38.5	31.5	-	91.5
Aluminium(Al)	mg/kg	335	108	24	102	72	216	131	150
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Barium(Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Copper(Cu)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Manganese(Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Mercury(Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Strontium(Sr)	mg/kg	ND	ND	ND	ND	ND	ND	24	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Zinc(Zn)	mg/kg	10	12	ND	20	15	ND	21	14
Chromium(Cr)	mg/kg	0.38	0.25	0.17	0.16	0.18	0.16	0.64	0.40
Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

Test Item(s):	Unit	Result							
		17(*3)	18(*3)	19(*3)	20(*3)	21	22	23	24(*3)
Mass of trace amount (mg)		59.8	44.9	42.6	64.4	-	-	-	99.3
Aluminium(Al)	mg/kg	79	625	413	78	107	110	505	83
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Barium(Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Copper(Cu)	mg/kg	10	ND	ND	ND	ND	ND	16	ND
Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Manganese(Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Mercury(Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Strontium(Sr)	mg/kg	ND	ND	ND	ND	12	ND	ND	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Zinc(Zn)	mg/kg	14	ND	ND	11	16	12	25	19
Chromium(Cr)	mg/kg	0.17	0.36	0.12	0.30	0.60	0.24	0.47	0.27
Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

TO BE CONTINUED

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TEST RESULT

Test Item(s):	Unit	Result							
		25	26	27(*3)	28(*3)	29	30	31(*3)	32(*3)
Mass of trace amount (mg)		-	-	29.4	95.6	-	-	68.1	61.8
Aluminium(Al)	mg/kg	471	142	36	69	540	303	16	47
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Barium(Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Copper(Cu)	mg/kg	13	ND	ND	ND	ND	ND	ND	ND
Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Manganese(Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Mercury(Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Strontium(Sr)	mg/kg	11	ND	ND	14	ND	ND	ND	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Zinc(Zn)	mg/kg	23	19	ND	21	19	17	ND	ND
Chromium(Cr)	mg/kg	0.33	0.34	0.20	0.85	0.79	0.54	0.74	0.15
Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

Test Item(s):	Unit	Result							
		33(*3)	40(*3)	41(*3)	42(*3)	43(*3)	44(*4)	45(*4)	46(*3)
Mass of trace amount (mg)		36.2	56.6	15.4	63.8	33.3	<10	<10	95.3
Aluminium(Al)	mg/kg	45	78	ND	245	22	-	-	265
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Barium(Ba)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Copper(Cu)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Manganese(Mn)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Mercury(Hg)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Strontium(Sr)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Zinc(Zn)	mg/kg	ND	14	ND	13	ND	-	-	ND
Chromium(Cr)	mg/kg	0.41	0.58	0.22	0.21	0.17	-	-	0.32
Organic Tin	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	ND	-	-	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	ND	ND	-	-	ND

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TEST RESULT

Test Item(s):	Unit	Result							
		47(*3)	48(*3)	49(*3)	50	51(*3)	52(*3)	53	54(*3)
Mass of trace amount (mg)		73.6	42.1	72.9	-	38.6	24.9	-	79.4
Aluminium(Al)	mg/kg	160	25	276	245	138	79	245	56
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Barium(Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Copper(Cu)	mg/kg	12	ND	ND	28	ND	18	39	ND
Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Manganese(Mn)	mg/kg	ND	ND	11	ND	ND	ND	ND	ND
Mercury(Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Strontium(Sr)	mg/kg	ND	ND	ND	ND	ND	ND	11	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	ND	6.3	ND
Zinc(Zn)	mg/kg	16	ND	24	20	15	12	24	18
Chromium(Cr)	mg/kg	0.46	0.21	0.65	0.46	0.53	0.19	0.39	0.38
Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

Test Item(s):	Unit	Result							
		55(*3)	56	57(*3)	58(*3)	59	60(*3)	61(*3)	62(*3)
Mass of trace amount (mg)		25.0	-	41.2	73.5	-	11.6	20.2	38.1
Aluminium(Al)	mg/kg	144	355	32	49	269	16	ND	12
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Barium(Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Copper(Cu)	mg/kg	14	ND	ND	ND	19	ND	ND	ND
Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Manganese(Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Mercury(Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Strontium(Sr)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Zinc(Zn)	mg/kg	13	25	ND	11	35	ND	ND	ND
Chromium(Cr)	mg/kg	0.23	1.27	0.26	0.30	0.45	0.18	0.18	0.26
Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

TO BE CONTINUED

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TEST RESULT

Test Item(s):	Unit	Result							
		63(*3)	64	65(*3)	66(*3)	67(*3)	68(*3)	69(*3)	70(*3)
Mass of trace amount (mg)		12.9	-	87.4	74.7	31.7	18.4	66.8	39.3
Aluminium(Al)	mg/kg	ND	155	89	31	21	16	2398	100
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Barium(Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Copper(Cu)	mg/kg	ND	ND	18	ND	ND	ND	ND	ND
Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Manganese(Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Mercury(Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Strontium(Sr)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Zinc(Zn)	mg/kg	ND	15	25	14	ND	ND	16	12
Chromium(Cr)	mg/kg	0.35	0.88	1.06	0.25	0.12	0.08	0.30	0.80
Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

Test Item(s):	Unit	Result							
		71	72	73	74	75	76	77	78
Mass of trace amount (mg)		-	-	-	-	-	-	-	-
Aluminium(Al)	mg/kg	447	320	ND	ND	ND	ND	ND	ND
Antimony(Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic(As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Barium(Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Boron(B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium(Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt(Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Copper(Cu)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Manganese(Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Mercury(Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Nickel(Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Selenium(Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Strontium(Sr)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Tin(Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Zinc(Zn)	mg/kg	ND	20	ND	ND	ND	ND	ND	ND
Chromium(Cr)	mg/kg	0.59	0.39	0.07	ND	ND	ND	ND	ND
Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

TO BE CONTINUED

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TEST RESULT

Test Item(s):	Unit	Result	
		79	81
Mass of trace amount (mg)		-	-
Aluminium(Al)	mg/kg	ND	71
Antimony(Sb)	mg/kg	ND	ND
Arsenic(As)	mg/kg	ND	ND
Barium(Ba)	mg/kg	ND	ND
Boron(B)	mg/kg	ND	ND
Cadmium(Cd)	mg/kg	ND	ND
Cobalt(Co)	mg/kg	ND	ND
Copper(Cu)	mg/kg	ND	ND
Lead(Pb)	mg/kg	ND	ND
Manganese(Mn)	mg/kg	ND	ND
Mercury(Hg)	mg/kg	ND	ND
Nickel(Ni)	mg/kg	ND	ND
Selenium(Se)	mg/kg	ND	ND
Strontium(Sr)	mg/kg	19	ND
Tin(Sn)	mg/kg	ND	ND
Zinc(Zn)	mg/kg	ND	ND
Chromium(Cr)	mg/kg	0.17	0.21
Organic Tin	mg/kg	ND	ND
Chromium (VI) (Cr VI)	mg/kg	ND	ND
Chromium III (Cr III)	mg/kg	ND	ND

Note:

- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected
- MDL = Method Detection Limit
- If migration of chromium exceeded the screening limit of Chromium (VI), the migration of Chromium (VI) was verified.
- If migration of tin exceeded the screening limit of organic tin, the migration of organic tin was verified.
- Migration of organic tin is calculated by adding the migration values expressed as tributyl tin for all the single organic tin compounds.

Remarks:

- *3. The weight of sample marked (*3) available was less than 100mg, but greater than 10mg, so result was calculated as if 100mg of the sample was available.
- *4. The weight of sample marked (*4) available was less than 10mg, so the test for soluble heavy metal content was not performed.

TO BE CONTINUED

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TEST RESULT

Limits – MDLs per category type:

Test Item(s):	Unit	Limit	MDL	Limit	MDL	Limit	MDL
Category Type		I		II		III	
Soluble Aluminium (Al)	mg/kg	2250	10	560	10	28130	10
Soluble Antimony (Sb)	mg/kg	45	10	11.3	5	560	10
Soluble Arsenic (As)	mg/kg	3.8	0.5	0.9	0.4	47	10
Soluble Barium (Ba)	mg/kg	1500	10	375	10	18750	10
Soluble Boron (B)	mg/kg	1200	10	300	10	15000	10
Soluble Cadmium (Cd)	mg/kg	1.3	0.5	0.3	0.1	17	8
Soluble Cobalt (Co)	mg/kg	10.5	1	2.6	1	130	10
Soluble Copper(Cu)	mg/kg	622.5	10	156	10	7700	10
Soluble Lead (Pb)	mg/kg	2.0	1	0.5	0.2	23	10
Soluble Manganese (Mn)	mg/kg	1200	10	300	10	15000	10
Soluble Mercury (Hg)	mg/kg	7.5	1	1.9	0.8	94	10
Soluble Nickel (Ni)	mg/kg	75	10	18.8	9	930	10
Soluble Selenium (Se)	mg/kg	37.5	1	9.4	1	460	10
Soluble Strontium (Sr)	mg/kg	4500	10	1125	10	56000	10
Soluble Tin (Sn)	mg/kg	15000	0.37	3750	0.08	180000	4.9
Soluble Zinc (Zn)	mg/kg	3750	10	938	10	46000	10
Soluble Chromium	mg/kg	-	0.02	-	0.005	-	0.05
Soluble Organic Tin	mg/kg	0.9	0.1	0.2	0.05	12	0.1
Soluble Chromium VI (Cr VI)	mg/kg	0.02	0.01	0.005	0.002	0.053	0.025
Soluble Chromium III (Cr III)	mg/kg	37.5	5	9.4	4	460	5

Category I: dry, brittle, powder-like or pliable toy material

Category II: liquid or sticky toy material

Category III: scrapped-off toy material

“-” = Not Regulated

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TEST RESULT

Total Cadmium Content (REACH) - Coating

Test Request: Total Cadmium Content according to Entry 23 of Annex XVII to Regulation (EC) No 1907/2006 and its amendments REACH Regulation (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) No 2016/217

Test Method: For metal material: EPA 3050B: 1996, EPA 6010D: 2018. ^{#1}
For paint or surface coating material: EPA 3051A: 2007, EPA 6010D: 2018. ^{#1}
For other material: EPA 3052: 1996, EPA 6010D: 2018. ^{#1}

Test Item(s)	Unit	Limit	MDL	Result		
				83	84	85
Cadmium(Cd)	mg/kg	1000	10	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result		
				86	88	89
Cadmium(Cd)	mg/kg	1000	10	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				90	91
Cadmium(Cd)	mg/kg	1000	10	ND	ND

Remark:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected
- #1. Test method was not in the scope of CNAS accreditation

Total Cadmium Content(REACH) - Substrate or wet paint

Test Request: Total Cadmium Content according to Entry 23 of Annex XVII to Regulation (EC) No 1907/2006 and its amendments REACH Regulation (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) No 2016/217

Test Method: For metal material: EPA 3050B: 1996, EPA 6010D: 2018. ^{#2}
For paint or surface coating material: EPA 3051A: 2007, EPA 6010D: 2018. ^{#2}
For other material: EPA 3052: 1996, EPA 6010D: 2018. ^{#2}

Test Item(s)	Unit	Limit	MDL	Result				
				73+74	76+77	78+79	80	92
Cadmium(Cd)	mg/kg	100	10	ND	ND	ND	ND	ND

Remark:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected
- #2. Test method was not in the scope of CNAS accreditation

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TEST RESULT

Phthalates Content(REACH)

Test Request: Phthalates according to Entry 51 & 52 of Regulation (EC) No 552/2009 and Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006

Test Method: CPSC-CH-C1001-09.4

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					73+74	76+77	78+79	83
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND	ND	ND	ND
Benzylbutylphthalate	85-68-7	%	-	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND	ND	ND	ND
Di-isobutyl phthalate (DiBP)	84-69-5	%	-	0.005	ND	ND	ND	ND
Sum of DEHP+DBP+BBP+DIBP	-	%	0.1	-	ND	ND	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND	ND	ND	ND
Phthalic acid, bis-iso-decyl ester (DIDP)	26761-40-0	%	-	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	-	0.005	ND	ND	ND	ND
Sum of DINP + DIDP + DNOP	-	%	0.1	-	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					84	85	86	88
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND	ND	ND	ND
Benzylbutylphthalate	85-68-7	%	-	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND	ND	ND	ND
Di-isobutyl phthalate (DiBP)	84-69-5	%	-	0.005	ND	ND	ND	ND
Sum of DEHP+DBP+BBP+DIBP	-	%	0.1	-	ND	ND	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND	ND	ND	ND
Phthalic acid, bis-iso-decyl ester (DIDP)	26761-40-0	%	-	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	-	0.005	ND	ND	ND	ND
Sum of DINP + DIDP + DNOP	-	%	0.1	-	ND	ND	ND	ND

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TEST RESULT

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					89	90	91	92
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND	ND	ND	ND
Benzylbutylphthalate	85-68-7	%	-	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND	ND	ND	ND
Di-isobutyl phthalate (DiBP)	84-69-5	%	-	0.005	ND	ND	ND	ND
Sum of DEHP+DBP+BBP+DIBP	-	%	0.1	-	ND	ND	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND	ND	ND	ND
Phthalic acid, bis-iso-decyl ester (DIDP)	26761-40-0	%	-	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	-	0.005	ND	ND	ND	ND
Sum of DINP + DIDP + DNOP	-	%	0.1	-	ND	ND	ND	ND

Remarks:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected

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TEST RESULT

PAHs(REACH)

Test Request: Polycyclic Aromatic Hydrocarbons (PAHs) according to the Entry 50 of Annex XVII to REACH Regulation (EC) No 1907/2006, and its amendment Regulation (EU) No 1272/2013

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2019:01 PAK (PAK=PAHs) requirement

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					1+2+3	5	7+9	12
Benzo(a)pyrene	50-32-8	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	0.5	0.10	ND	ND	ND	ND
Benz(a)anthracene	56-55-3	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo-(j)-fluoranthene	205-82-3	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	0.5	0.10	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.5	0.10	ND	ND	ND	ND
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.5	0.10	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					15	16+17	20+21	22+23+24
Benzo(a)pyrene	50-32-8	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	0.5	0.10	ND	ND	ND	ND
Benz(a)anthracene	56-55-3	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo-(j)-fluoranthene	205-82-3	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	0.5	0.10	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.5	0.10	ND	ND	ND	ND
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.5	0.10	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					25+26	28+29+30	31+32	40+42
Benzo(a)pyrene	50-32-8	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	0.5	0.10	ND	ND	ND	ND
Benz(a)anthracene	56-55-3	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo-(j)-fluoranthene	205-82-3	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	0.5	0.10	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.5	0.10	ND	ND	ND	ND
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.5	0.10	ND	ND	ND	ND

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TEST RESULT

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					43	46+47	49+50	52+53+54
Benzo(a)pyrene	50-32-8	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	0.5	0.10	ND	ND	ND	ND
Benz(a)anthracene	56-55-3	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(j)-fluoranthene	205-82-3	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	0.5	0.10	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.5	0.10	ND	ND	ND	ND
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.5	0.10	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result		
					56	58+59	64+65+66
Benzo(a)pyrene	50-32-8	mg/kg	0.5	0.10	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	0.5	0.10	ND	ND	ND
Benz(a)anthracene	56-55-3	mg/kg	0.5	0.10	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	0.5	0.10	ND	ND	ND
Benzo(j)-fluoranthene	205-82-3	mg/kg	0.5	0.10	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	0.5	0.10	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.5	0.10	ND	ND	ND
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.5	0.10	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					69	71+72	73+74	75+76+77
Benzo(a)pyrene	50-32-8	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	0.5	0.10	ND	ND	ND	ND
Benz(a)anthracene	56-55-3	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(j)-fluoranthene	205-82-3	mg/kg	0.5	0.10	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	0.5	0.10	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	0.5	0.10	ND	ND	ND	ND
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.5	0.10	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result	
					78+79	81
Benzo(a)pyrene	50-32-8	mg/kg	0.5	0.10	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	0.5	0.10	ND	ND
Benz(a)anthracene	56-55-3	mg/kg	0.5	0.10	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	0.5	0.10	ND	ND
Benzo(j)-fluoranthene	205-82-3	mg/kg	0.5	0.10	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	0.5	0.10	ND	ND
Chrysene	218-01-9	mg/kg	0.5	0.10	ND	ND
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.5	0.10	ND	ND

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TEST RESULT

Remarks:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected
- Material No.4,6,8,10,11,13,14,18,19,27,33,41,44,45,48,51,55,57,60,61,62,63,67,68,70, which are present on the samples available for testing in quantities less than 50mg are not evaluated.

Organotin Compounds(as Tin)(REACH)

Test Request: Organotin Compounds according to Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006

Test Method: EPA 3550C:2007, ISO 17353: 2004^{#3}

Test Item(s)	Unit	Limit	MDL	Result			
				73+74	76+77	78+79	83
Dibutyltin (DBT)	mg/kg	1000	0.005	ND	ND	ND	ND
Diocetyltn (DOT)	mg/kg	1000	0.005	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	-	0.005	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	-	0.005	ND	ND	ND	ND
Sum of Tributyltin (TBT) + Triphenyltin (TPhT)	mg/kg	1000	-	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				84	85	86	88
Dibutyltin (DBT)	mg/kg	1000	0.005	ND	ND	ND	ND
Diocetyltn (DOT)	mg/kg	1000	0.005	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	-	0.005	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	-	0.005	ND	ND	ND	ND
Sum of Tributyltin (TBT) + Triphenyltin (TPhT)	mg/kg	1000	-	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				89	90	91	92
Dibutyltin (DBT)	mg/kg	1000	0.005	ND	ND	ND	ND
Diocetyltn (DOT)	mg/kg	1000	0.005	ND	ND	ND	ND
Tributyltin (TBT)	mg/kg	-	0.005	ND	ND	ND	ND
Triphenyltin (TPhT)	mg/kg	-	0.005	ND	ND	ND	ND
Sum of Tributyltin (TBT) + Triphenyltin (TPhT)	mg/kg	1000	-	ND	ND	ND	ND

Remark:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected
- #3.Test method was not in the scope of CNAS accreditation

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TEST RESULT

ASTM F963-23 Physical and Mechanical Hazards

Test Request: ASTM F963-23 Physical and Mechanical Hazards

Section	Description	Result
4.1	Material Quality	P
4.2	Flammability	P
4.3.7	Stuffing Materials(Visual Inspection)	N/A
4.4	Electrical/Thermal Energy	N/A
4.5	Sound-Producing Toys	N/A
4.6	Small Objects	
4.6.1	Toys that are intended for children under 36 months of age	N/A
4.6.2	Mouth-Actuated Toys	N/A
4.6.3	Toys that are intended for children over 36 months but less than 72 months	N/A
4.7	Accessible Edges	P
4.8	Projections	N/A
4.8.1	Bath Toy Projections	N/A
4.9	Accessible Points	P
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners	N/A
4.12	Plastic Film	P
4.13	Folding Mechanisms and Hinges	N/A
4.14	Cords, Straps and Elastics	N/A
4.15	Stability and Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearances, and Accessibility of Mechanisms	N/A
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-Operated Toys	N/A
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.28	Stroller and Carriage Toys	N/A
4.29	Art Materials (Label review only)	N/A
4.30	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.33	Marbles	N/A
4.34	Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding material	N/A
4.41	Toy Chests	N/A

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TEST RESULT

Section	Description	Result
5	Labeling Requirements	
5.1.1	All toys fall within the definition and requirement of U.S. FHSA shall conform to the labeling requirement of that act; State labeling requirement may exist as well.	P
5.1.2	All toys shall bear, where practicable, on the product and on the packaging, a "tracking label" in compliance with Section 14(a)(5) of the Consumer Product Safety Act (CPSA, 15 U.S.C. §2063(a)(5)).	P
5.2	Age Grading Labeling	P
5.3	Safety Labeling Requirements	N/A
5.4	Aquatic Toys	N/A
5.5	Crib and Playpen Toys	N/A
5.6	Mobiles	N/A
5.7	Stroller and Carriage Toys	N/A
5.8	Toys Intended to be Assembled by an Adult	N/A
5.9	Simulated Protective Devices	N/A
5.10	Toys with Functional Sharp Edges and Sharp Points	N/A
5.11	Small Objects, Small Balls, Marbles and Balloons	N/A
5.12	Art Materials	N/A
5.13	Electric Toys	N/A
5.14	Battery-Operated Toys	
5.14.1	Battery-Powered Ride-On Toys	N/A
5.14.2	Button or Coin Cell Batteries	N/A
5.15	Promotional Materials	P
5.16	Magnets	N/A
6	Instructional Literature	
6.1	Definition and Description	P
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4	Toys Intended to be Assembled by an Adult	N/A
6.5	Battery-Operated Toys	N/A
6.6	Battery-Powered Ride-On Toys	N/A
6.7	Toys in Contact with Food	N/A
6.8	Toy Chests	N/A
6.9	Instructional Materials	N/A
7	Producer's Markings	
7.1	Producer's or Distributor's Name and Address	P
7.2	Battery-Powered Ride-on Toys	N/A
7.3	Toy Chests	N/A
8	Test methods	
8.5	Normal Use Testing	P
8.7.1	Drop Test	N/A
8.7.2	Tip over Test for Large, Bulky Toys	N/A
8.7.3	Tumble Test for Wheeled Toys	N/A
8.7.4	Impact Test for Toys that Cover the Face	N/A
8.8	Torque Tests for Removal of Components	N/A
8.9	Tension Test for Removed of Components	N/A
8.9.1	Tension Test for Seams in Stuffed Toys and Beanbag Type Toys	N/A
8.10	Compression Test	N/A

TO BE CONTINUED

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Section	Description	Result
8.11	Tests for Tire Removal and Snap-in Wheel and Axle Assembly Removal	N/A
8.12	Flexure Test	N/A
8.13	Test for Mouth-Actuated Toys	N/A

Remark:

P = Pass

F = Fail

N/A = Not Applicable

ASTM F963-23- Heavy Elements – Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay (Clause 4.3.5.1(2) and 4.3.5.2(2)(b))

Test Request: ASTM F963-23 Migration of Certain Elements

Test Method: As per ASTM F963-23, soluble toxic element contents are determined by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

Test Item(s)	Unit	Limit	MDL	Result			
				1	2 ^(*5) (70.3mg)	3 ^(*5) (33.3mg)	4 ^(*6)
Arsenic (As)	mg/kg	25	2.5	ND	ND	ND	-
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	-
Lead (Pb)	mg/kg	90	2.5	ND	ND	ND	-
Chromium (Cr)	mg/kg	60	2.5	ND	ND	ND	-
Antimony (Sb)	mg/kg	60	2.5	ND	ND	ND	-
Cadmium (Cd)	mg/kg	75	2.5	ND	ND	ND	-
Mercury (Hg)	mg/kg	60	2.5	ND	ND	ND	-
Selenium (Se)	mg/kg	500	2.5	ND	ND	ND	-

Test Item(s)	Unit	Limit	MDL	Result			
				5 ^(*5) (71.1mg)	6 ^(*6)	7 ^(*5) (58.0mg)	8 ^(*5) (39.2mg)
Arsenic (As)	mg/kg	25	2.5	ND	-	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	-	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	-	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	-	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	-	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	-	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	-	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	-	ND	ND

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TEST RESULT

Test Item(s)	Unit	Limit	MDL	Result			
				9	10 ^(*5) (31.8mg)	11 ^(*5) (34.0mg)	12 ^(*5) (58.4mg)
Arsenic (As)	mg/kg	25	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	ND	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				13 ^(*5) (38.5mg)	14 ^(*5) (31.5mg)	15	16 ^(*5) (91.5mg)
Arsenic (As)	mg/kg	25	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	ND	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				17 ^(*5) (59.8mg)	18 ^(*5) (44.9mg)	19 ^(*5) (42.6mg)	20 ^(*5) (64.4mg)
Arsenic (As)	mg/kg	25	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	ND	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				21	22	23	24 ^(*5) (99.3mg)
Arsenic (As)	mg/kg	25	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	2.5	ND	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	ND	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	ND	ND	ND

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TEST RESULT

Test Item(s)	Unit	Limit	MDL	Result			
				25	26	27(*5) (29.4mg)	28(*5) (95.6mg)
Arsenic (As)	mg/kg	25	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	ND	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				29	30	31(*5) (68.1mg)	32(*5) (61.8mg)
Arsenic (As)	mg/kg	25	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	ND	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				33(*5) (36.2mg)	40(*5) (56.6mg)	41(*5) (15.4mg)	42(*5) (63.8mg)
Arsenic (As)	mg/kg	25	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	ND	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				43(*5) (33.3mg)	44(*6)	45(*6)	46(*5) (95.3mg)
Arsenic (As)	mg/kg	25	2.5	ND	-	-	ND
Barium (Ba)	mg/kg	1000	2.5	ND	-	-	ND
Lead (Pb)	mg/kg	90	2.5	ND	-	-	ND
Chromium (Cr)	mg/kg	60	2.5	ND	-	-	ND
Antimony (Sb)	mg/kg	60	2.5	ND	-	-	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	-	-	ND
Mercury (Hg)	mg/kg	60	2.5	ND	-	-	ND
Selenium (Se)	mg/kg	500	2.5	ND	-	-	ND

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Test Item(s)	Unit	Limit	MDL	Result			
				47(*5) (73.6mg)	48(*5) (42.1mg)	49(*5) (72.9mg)	50
Arsenic (As)	mg/kg	25	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	ND	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				51(*5) (38.6mg)	52(*5) (24.9mg)	53	54(*5) (79.4mg)
Arsenic (As)	mg/kg	25	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	ND	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				55(*5) (25.0mg)	56	57(*5) (41.2mg)	58(*5) (73.5mg)
Arsenic (As)	mg/kg	25	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	ND	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				59	60(*5) (11.6mg)	61(*5) (20.2mg)	62(*5) (38.1mg)
Arsenic (As)	mg/kg	25	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	ND	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	ND	ND	ND

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TEST RESULT

Test Item(s)	Unit	Limit	MDL	Result			
				63 ^(*5) (12.9mg)	64	65 ^(*5) (87.4mg)	66 ^(*5) (74.7mg)
Arsenic (As)	mg/kg	25	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	ND	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				67 ^(*5) (31.7mg)	68 ^(*5) (18.4mg)	69 ^(*5) (66.8mg)	70 ^(*5) (39.3mg)
Arsenic (As)	mg/kg	25	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	ND	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				71	72	73	74
Arsenic (As)	mg/kg	25	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	2.5	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	ND	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				75	76	77	78
Arsenic (As)	mg/kg	25	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	ND	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				79	81
Arsenic (As)	mg/kg	25	2.5	ND	ND

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Barium (Ba)	mg/kg	1000	2.5	ND	ND
Lead (Pb)	mg/kg	90	2.5	ND	ND
Chromium (Cr)	mg/kg	60	2.5	ND	ND
Antimony (Sb)	mg/kg	60	2.5	ND	ND
Cadmium (Cd)	mg/kg	75	2.5	ND	ND
Mercury (Hg)	mg/kg	60	2.5	ND	ND
Selenium (Se)	mg/kg	500	2.5	ND	ND

Remark:

- MDL = Method Detection Limit

- 1 mg/kg = 1 ppm = 0.0001%

- ND = Not Detected

- *5. The weight of sample marked (*5) available was less than 100mg, but greater than 10mg, so result was calculated as if 100mg of the sample was available.

- *6. The weight of sample marked (*6) available was less than 10mg, so the test for soluble heavy metal content was not performed.

Total Lead Content (ASTM F963-23) - Substrate

Test Request: ASTM F963-23 Total Lead Content

Test Method: (1) CPSC-CH-E1001-08.3 (metal substrates)
(2) CPSC-CH-E1002-08.3 (non-metal substrates)
(3) CPSC-CH-E1003-09.1 (paint and similar surface-coating materials)
The sample was digested with acid. Then the lead content was determined by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

Test Item(s)	Unit	Limit	MDL	Result				
				73+74	76+77	78+79	80	92
Lead (Pb)	mg/kg	100	10	ND	ND	ND	ND	ND

Remark:

- MDL = Method Detection Limit

- 1 mg/kg = 1 ppm = 0.0001%

- ND = Not Detected

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TEST RESULT

Total Lead Content (ASTM F963-23) - Coating

Test Request: ASTM F963-23 Total Lead Content

Test Method: (1) CPSC-CH-E1001-08.3 (metal substrates)
(2) CPSC-CH-E1002-08.3 (non-metal substrates)
(3) CPSC-CH-E1003-09.1 (paint and similar surface-coating materials)
The sample was digested with acid. Then the lead content was determined by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

Test Item(s)	Unit	Limit	MDL	Result		
				83	84	85
Lead (Pb)	mg/kg	90	10	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result		
				86	88	89
Lead (Pb)	mg/kg	90	10	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				90	91
Lead (Pb)	mg/kg	90	10	ND	ND

Remark:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected

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TEST RESULT

ASTM F963-23 Phthalates

Test Request: ASTM F963-23 Phthalates

Test Method: CPSC-CH-C1001-09.4

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					73+74	76+77	78+79	83
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Dicyclohexyl phthalate(DCHP)	84-61-7	%	0.1	0.005	ND	ND	ND	ND
Diisobutyl phthalate (DiBP)	84-69-5	%	0.1	0.005	ND	ND	ND	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					84	85	86	88
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Dicyclohexyl phthalate(DCHP)	84-61-7	%	0.1	0.005	ND	ND	ND	ND
Diisobutyl phthalate (DiBP)	84-69-5	%	0.1	0.005	ND	ND	ND	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND

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TEST RESULT

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					89	90	91	92
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Dicyclohexyl phthalate(DCHP)	84-61-7	%	0.1	0.005	ND	ND	ND	ND
Diisobutyl phthalate (DiBP)	84-69-5	%	0.1	0.005	ND	ND	ND	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND

Remarks:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected

TO BE CONTINUED

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TEST RESULT

Physical and Mechanical Test

Test Request: As specified in the mechanical hazards requirements of the tested sections of Consumer Product Safety Commission 16 CFR CH. II

Section	Description	Result
16 CFR 1501	16 CFR 1501 - Small Parts As Specified in Title 16 Part 1501, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A. Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts.	N/A
16 CFR 1500.48	16 CFR 1500.48 - Sharp Points As Specified in Title 16 Part 1500.48, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A. Technical requirement for determining a sharp point in toys and other articles intended for use by children under 8 years of age.	P
16 CFR 1500.49	16 CFR 1500.49 - Sharp Edges As Specified in Title 16 Part 1500.49, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A. Technical requirement for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age.	P

Remark:

P = Pass

F = Fail

N/A = Not Applicable

TO BE CONTINUED

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TEST RESULT

As Specified in Title 16 Part 1500.44 Flammability test on Solid of the tested sections of Consumer Product Safety Commission 16 CFR CH. II

Test Request: As Specified in Title 16 Part 1500.44 Flammability test on Solid of the tested sections of Consumer Product Safety Commission 16 CFR CH. II

Test Sample	Burning Rate (inch/sec)	Limit	Result
Figure with crocodile hat	DNI	≤0.1 inch/sec	Pass
Cat	DNI	≤0.1 inch/sec	Pass
Leaf	0.02	≤0.1 inch/sec	Pass
Figure with bowl	DNI	≤0.1 inch/sec	Pass
Oven	DNI	≤0.1 inch/sec	Pass
Baked fish	DNI	≤0.1 inch/sec	Pass
Stand	DNI	≤0.1 inch/sec	Pass
Scooter	DNI	≤0.1 inch/sec	Pass
Fishing rod	DNI	≤0.1 inch/sec	Pass
Basket	DNI	≤0.1 inch/sec	Pass
Guidepost	0.01	≤0.1 inch/sec	Pass

Remark:

- DNI= Did not ignited
- Only applicable clause(s) was/were shown

Tracking Labels for Children's Products, CPSIA Section 103 ^{#4}

Test Request: Tracking Labels for Children's Products, CPSIA Section 103

Labeling Content	Location	Conclusion
Name of Manufacturer	Packaging	Present
Location of production	Packaging	Present
Date of production	Packaging	Present
Cohort information	Packaging	Present

Remark:

N/A = Not Applicable

#4. Test method was not in the scope of CNAS accreditation.

TO BE CONTINUED

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TEST RESULT

Total Lead Content(CPSIA) - Substrate

Test Request: Total Lead Content according to US Consumer Product Safety Improvement Act 2008 (CPSIA)

Test Method: (1) CPSC-CH-E1001-08.3 (metal substrates)
(2) CPSC-CH-E1002-08.3 (non-metal substrates)
(3) CPSC-CH-E1003-09.1 (paint and similar surface-coating materials)
The sample was digested with acid. Then the lead content was determined by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

Test Item(s)	Unit	Limit	MDL	Result				
				73+74	76+77	78+79	80	92
Lead (Pb)	mg/kg	100	10	ND	ND	ND	ND	ND

Remark:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected

Total Lead Content (CPSIA) - Coating

Test Request: Total Lead Content according to US Consumer Product Safety Improvement Act 2008 (CPSIA)

Test Method: (1) CPSC-CH-E1001-08.3 (metal substrates)
(2) CPSC-CH-E1002-08.3 (non-metal substrates)
(3) CPSC-CH-E1003-09.1 (paint and similar surface-coating materials)
The sample was digested with acid. Then the lead content was determined by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

Test Item(s)	Unit	Limit	MDL	Result		
				83	84	85
Lead (Pb)	mg/kg	90	10	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result		
				86	88	89
Lead (Pb)	mg/kg	90	10	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				90	91
Lead (Pb)	mg/kg	90	10	ND	ND

Remark:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected

TO BE CONTINUED

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TEST RESULT

Total Lead Content (CP65) - Substrate

Test Request: Total Lead Content according to California Proposition 65, Alameda Superior Court, RG07356892

Test Method: (1) CPSC-CH-E1001-08.3 (metal substrates)
(2) CPSC-CH-E1002-08.3 (non-metal substrates)
(3) CPSC-CH-E1003-09.1 (paint and similar surface-coating materials)
The sample was digested with acid. Then the lead content was determined by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

Test Item(s)	Unit	Limit	MDL	Result				
				73+74	76+77	78+79	80	92
Lead (Pb)	mg/kg	100	10	ND	ND	ND	ND	ND

Remark:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected

Total Lead Content (CP65) - Coating

Test Request: Total Lead Content according to California Proposition 65, Alameda Superior Court, RG07356892

Test Method: (1) CPSC-CH-E1001-08.3 (metal substrates)
(2) CPSC-CH-E1002-08.3 (non-metal substrates)
(3) CPSC-CH-E1003-09.1 (paint and similar surface-coating materials)
The sample was digested with acid. Then the lead content was determined by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

Test Item(s)	Unit	Limit	MDL	Result		
				83	84	85
Lead (Pb)	mg/kg	90	10	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result		
				86	88	89
Lead (Pb)	mg/kg	90	10	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				90	91
Lead (Pb)	mg/kg	90	10	ND	ND

Remark:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected

TO BE CONTINUED

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TEST RESULT

Total Lead Content in Paint / Surface Coating (16 CFR 1303)

Test Request: Total Lead Content according to US 16 CFR Part 1303

Test Method: CPSC-CH-E1003-09.1

The sample was digested with acid. Then the lead content was determined by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)

Test Item(s)	Unit	Limit	MDL	Result		
				83	84	85
Lead (Pb)	mg/kg	90	10	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result		
				86	88	89
Lead (Pb)	mg/kg	90	10	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				90	91
Lead (Pb)	mg/kg	90	10	ND	ND

Remark:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected

TO BE CONTINUED

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TEST RESULT

Phthalates Content (US 16 CFR Part 1307)

Test Request: US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Test Method: CPSC-CH-C1001-09.4

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					73+74	76+77	78+79	83
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Di-isobutyl phthalate (DiBP)	84-69-5	%	0.1	0.005	ND	ND	ND	ND
Dicyclohexyl phthalate(DCHP)	84-61-7	%	0.1	0.005	ND	ND	ND	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	%	0.1	0.005	ND	ND	ND	ND
Phthalic acid, bis-hexyl ester (DnHP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					84	85	86	88
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Di-isobutyl phthalate (DiBP)	84-69-5	%	0.1	0.005	ND	ND	ND	ND
Dicyclohexyl phthalate(DCHP)	84-61-7	%	0.1	0.005	ND	ND	ND	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	%	0.1	0.005	ND	ND	ND	ND
Phthalic acid, bis-hexyl ester (DnHP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND

TO BE CONTINUED

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TEST RESULT

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					89	90	91	92
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Di-isobutyl phthalate (DiBP)	84-69-5	%	0.1	0.005	ND	ND	ND	ND
Dicyclohexyl phthalate(DCHP)	84-61-7	%	0.1	0.005	ND	ND	ND	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	%	0.1	0.005	ND	ND	ND	ND
Phthalic acid, bis-hexyl ester (DnHP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND

Remarks:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected

TO BE CONTINUED

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TEST RESULT

Phthalates Content(CP65 and AB 1108)

Test Request: Phthalates according to US California Proposition 65 and Assembly Bill AB 1108.

Test Method: CPSC-CH-C1001-09.4

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					73+74	76+77	78+79	83
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	0.1	0.005	ND	ND	ND	ND
Phthalic acid, bis-iso-decyl ester (DIDP)	26761-40-0	%	0.1	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND
Phthalic acid, bis-hexyl ester (DnHP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					84	85	86	88
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	0.1	0.005	ND	ND	ND	ND
Phthalic acid, bis-iso-decyl ester (DIDP)	26761-40-0	%	0.1	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND
Phthalic acid, bis-hexyl ester (DnHP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND

TO BE CONTINUED

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TEST RESULT

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					89	90	91	92
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	0.1	0.005	ND	ND	ND	ND
Phthalic acid, bis-iso-decyl ester (DIDP)	26761-40-0	%	0.1	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND
Phthalic acid, bis-hexyl ester (DnHP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND

Remarks:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected

TO BE CONTINUED

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TEST RESULT

Physical and Mechanical (SOR/2011-17,SOR/2018-138)

Test Request: The mechanical hazards requirements of the tested sections of Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 amended by SOR/2018-138 and Schedule 2.

Section	Description	Result
	Packaging	
4	Flexible film bag	P
	Mechanical Hazards	
7	Small parts	N/A
8	Metal edges	N/A
9	Wire frames	N/A
10	Plastic edges	P
11	Wood	N/A
12	Glass	N/A
13	Fasteners	N/A
14	Safety stops or locking devices	N/A
15	Spring-wound driving mechanisms	N/A
16	Projectile components	N/A
17	Enclosures	N/A
18	Stability	N/A
	Auditory Hazards	
19	Decibel limit	N/A
	Thermal and Flammability Hazards	
20	Heated surfaces, parts or substances	N/A
	Specific Products	
28	Dolls, plush toys and soft toys - fastenings	N/A
29	Dolls, plush toys and soft toys - stuffing	N/A
30	Dolls, plush toys and soft toys - small parts	N/A
31	Dolls, plush toys and soft toys - eyes and noses	N/A
35	Plant seeds - noise	N/A
36	Plant seeds - stuffing material	N/A
37	Pull and push toys - shaft-like handles	N/A
38	Toys steam engines - boilers - safety valves	N/A
39	Finger paints - water-based paints	N/A
40	Rattles - construction	N/A
41	Elastics - length or extensibility	N/A
42	Yo-Yo type balls - stretchable cord	N/A
43	Magnetic force	N/A
44	Exceptions	N/A
	Canada Consumer Product Safety Act, Schedule 2	
1	Jequirity Beans	P
2	Cellulose nitrate	P
8	Kites	N/A
9	Kite strings	N/A
14	Lawn, darts with elongated tips	N/A

Remark:

P = Pass

F = Fail

N/A = Not Applicable

TO BE CONTINUED

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TEST RESULT

Flammability of Toys

Test Request: The flammability requirements of the tested sections of Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 amended by SOR/2018-138.

Section	Description	Result
21	Flammability of celluloid or cellulose nitrate	P
32	Flammability of outer covering on doll, plush toy and soft toy	N/A
33	Flammability of yarn on doll, plush toy and soft toy	N/A
34	Flammability of hair or mane on doll, plush toy and soft toy	N/A

Remark:

P = Pass F = Fail N/A = Not Applicable

Section 23: Specific substances in surface coatings - Total Lead Content

Test Request: Section 23: Total Lead Content according to Canada Toys Regulations SOR/2011-17 and Amendments (Including SOR/2022-122)

Test Method: Canada Product Safety Laboratory Book 5: Laboratory Policies and Procedures, Part B: Test Methods Section, Method C-02.

Test Item(s)	Unit	Limit	MDL	Result		
				83	84	85
Lead (Pb)	mg/kg	90	10	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result		
				86	88	89
Lead (Pb)	mg/kg	90	10	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				90	91
Lead (Pb)	mg/kg	90	10	ND	ND

Remark:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected

TO BE CONTINUED

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TEST RESULT

Section 23: Specific substances in surface coatings - Total Mercury Content

Test Request: Section 23: Total Mercury Content according to Canada Toys Regulations SOR/2011-17 and Amendments (Including SOR/2022-122)

Test Method: Canada Product Safety Laboratory Book 5: Laboratory Policies and Procedures, Part B: Test Methods Section, Method C-07^{#5}

Test Item(s)	Unit	Limit	MDL	Result		
				83	84	85
Mercury(Hg)	mg/kg	10	3	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result		
				86	88	89
Mercury(Hg)	mg/kg	10	3	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				90	91
Mercury(Hg)	mg/kg	10	3	ND	ND

Remark:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected
- #5. Test method was not in the scope of CNAS accreditation.

TO BE CONTINUED

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TEST RESULT

Section 23: Specific substances in surface coatings - Leachable Heavy Metal contents

Test Request: Section 23: Leachable Heavy Metal contents according to Canada Toys Regulations SOR/2011-17 and Amendments (Including SOR/2022-122)

Test Method: As per ASTM F963-17, soluble toxic element contents are determined by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

Test Item(s)	Unit	Limit	MDL	Result			
				1	2 ^(*7) (70.3mg)	3 ^(*7) (33.3mg)	4 ^(*8)
Arsenic (As)	mg/kg	1000	2.5	ND	ND	ND	-
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	-
Antimony (Sb)	mg/kg	1000	2.5	ND	ND	ND	-
Cadmium (Cd)	mg/kg	1000	2.5	ND	ND	ND	-
Selenium (Se)	mg/kg	1000	2.5	ND	ND	ND	-

Test Item(s)	Unit	Limit	MDL	Result			
				5 ^(*7) (71.1mg)	6 ^(*8)	7 ^(*7) (58.0mg)	8 ^(*7) (39.2mg)
Arsenic (As)	mg/kg	1000	2.5	ND	-	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	-	ND	ND
Antimony (Sb)	mg/kg	1000	2.5	ND	-	ND	ND
Cadmium (Cd)	mg/kg	1000	2.5	ND	-	ND	ND
Selenium (Se)	mg/kg	1000	2.5	ND	-	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				9	10 ^(*7) (31.8mg)	11 ^(*7) (34.0mg)	12 ^(*7) (58.4mg)
Arsenic (As)	mg/kg	1000	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	1000	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1000	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	1000	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				13 ^(*7) (38.5mg)	14 ^(*7) (31.5mg)	15	16 ^(*7) (91.5mg)
Arsenic (As)	mg/kg	1000	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	1000	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1000	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	1000	2.5	ND	ND	ND	ND

TO BE CONTINUED

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TEST RESULT

Test Item(s)	Unit	Limit	MDL	Result			
				17(*7) (59.8mg)	18(*7) (44.9mg)	19(*7) (42.6mg)	20(*7) (64.4mg)
Arsenic (As)	mg/kg	1000	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	1000	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1000	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	1000	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				21	22	23	24(*7) (99.3mg)
Arsenic (As)	mg/kg	1000	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	2.5	ND	ND	ND
Antimony (Sb)	mg/kg	1000	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1000	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	1000	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				25	26	27(*7) (29.4mg)	28(*7) (95.6mg)
Arsenic (As)	mg/kg	1000	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	1000	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1000	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	1000	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				29	30	31(*7) (68.1mg)	32(*7) (61.8mg)
Arsenic (As)	mg/kg	1000	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	1000	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1000	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	1000	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				33(*7) (36.2mg)	40(*7) (56.6mg)	41(*7) (15.4mg)	42(*7) (63.8mg)
Arsenic (As)	mg/kg	1000	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	1000	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1000	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	1000	2.5	ND	ND	ND	ND

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TEST RESULT

Test Item(s)	Unit	Limit	MDL	Result			
				43(*7) (33.3mg)	44(*8)	45(*8)	46(*7) (95.3mg)
Arsenic (As)	mg/kg	1000	2.5	ND	-	-	ND
Barium (Ba)	mg/kg	1000	2.5	ND	-	-	ND
Antimony (Sb)	mg/kg	1000	2.5	ND	-	-	ND
Cadmium (Cd)	mg/kg	1000	2.5	ND	-	-	ND
Selenium (Se)	mg/kg	1000	2.5	ND	-	-	ND

Test Item(s)	Unit	Limit	MDL	Result			
				47(*7) (73.6mg)	48(*7) (42.1mg)	49(*7) (72.9mg)	50
Arsenic (As)	mg/kg	1000	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	1000	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1000	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	1000	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				51(*7) (38.6mg)	52(*7) (24.9mg)	53	54(*7) (79.4mg)
Arsenic (As)	mg/kg	1000	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	1000	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1000	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	1000	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				55(*7) (25.0mg)	56	57(*7) (41.2mg)	58(*7) (73.5mg)
Arsenic (As)	mg/kg	1000	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	1000	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1000	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	1000	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				59	60(*7) (11.6mg)	61(*7) (20.2mg)	62(*7) (38.1mg)
Arsenic (As)	mg/kg	1000	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	1000	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1000	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	1000	2.5	ND	ND	ND	ND

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TEST RESULT

Test Item(s)	Unit	Limit	MDL	Result			
				63(*7) (12.9mg)	64	65(*7) (87.4mg)	66(*7) (74.7mg)
Arsenic (As)	mg/kg	1000	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	1000	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1000	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	1000	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				67(*7) (31.7mg)	68(*7) (18.4mg)	69(*7) (66.8mg)	70(*7) (39.3mg)
Arsenic (As)	mg/kg	1000	2.5	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	ND	ND	ND
Antimony (Sb)	mg/kg	1000	2.5	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1000	2.5	ND	ND	ND	ND
Selenium (Se)	mg/kg	1000	2.5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result		
				71	72	81
Arsenic (As)	mg/kg	1000	2.5	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.5	ND	2.5	ND
Antimony (Sb)	mg/kg	1000	2.5	ND	ND	ND
Cadmium (Cd)	mg/kg	1000	2.5	ND	ND	ND
Selenium (Se)	mg/kg	1000	2.5	ND	ND	ND

Remark:

- MDL = Method Detection Limit

- 1 mg/kg = 1 ppm = 0.0001%

- ND = Not Detected

- *7. The weight of sample marked (*7) available was less than 100mg, but greater than 10mg, so result was calculated as if 100mg of the sample was available.

- *8. The weight of sample marked (*8) available was less than 10mg, so the test for soluble heavy metal content was not performed.

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TEST RESULT

Phthalates Content(SOR/2016-188)

Test Request: Canada Phthalates Regulations SOR/2016-188

Test Method: Canada Product Safety Laboratory Book 5: Laboratory Policies and Procedures, Part B:
Test Methods Section, Method C-34^{#6}

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					73+74
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND
Benzylbutylphthalate	85-68-7	%	0.1	0.005	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	0.1	0.005	ND
Phthalic acid, bis-iso-decyl ester (DIDP)	26761-40-0	%	0.1	0.005	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND

Remark:

- MDL = Method Detection Limit
- 1 mg/kg = 1 ppm = 0.0001%
- ND = Not Detected
- #6. Test method was not in the scope of CNAS accreditation

Other Information / Remark:

According to the customer's requirement, the appointed material has been tested.

END OF THE REPORT

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