

CONSUMER PRODUCTS SERVICES DIVISION

CARPENTERS MANUFACTORY LIMITED

 Technical Report:
 (8518)191-0811(Revision)
 August 24, 2018

 Date Received:
 August 20, 2018
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CARPENTERS MANUFACTORY LIMITED HUANG JIN JI INDUSTRIAL ZONE, SHANG JIE VILLAGE, QI SHI TOWN, DONG GUAN CITY, GUANG DONG PROVINCE, P.R.CHINA

(*)Sample Description: 1200L MOBILE GAME TABLE

1200L MESSY PLAY PLASTIC TRAY

MOVABLE ACTIVITY TABLE

Vendor: CARPENTERS MANUFACTORY Sample Size: 3

LIMITED

Manufacturer: N/A Style No(s): ME12371/ME11466/ME

04147

N/A

SKN/SKU No.: Buver: N/A N/A Labeled Age Grade: NOT PRESENT PO No.: N/A Appropriate Age Grade: NOT REQUESTED Ref#: N/A Client Specified Age **NOT SPECIFIED** Country of Origin: **CHINA**

Grade:

Tested Age Grade: FOR B=OVER 1 YEARS OF

Assortment No.:

AGE; FOR A, C=OVER 3 YEARS

OF AGE

UPC Code: N/A Country of Destination: GLOBAL

EXECUTIVE SUMMARY:

The sample(s) MEET the following requirement(s):

- The flammability requirements of 16 CFR 1500.3(c)(6)(vi), "Flammable solid" (FHSA regulations).
- Labeling requirements of "CE marking, manufacturer/ Importer name and address, and product identification" under "Directive 2009/48/EC Safety of Toy".
- The labeling requirements of the tested subclauses of the AS/NZS Standard, "Safety of toys", AS/NZS 8124: Part 1: 2016.
- The mechanical and physical properties requirements of the tested subclauses of the AS/NZS Standard, "Safety of toys", AS/NZS 8124: Part 1: 2016.
- The flammability requirements of the AS/NZS Standard, "Safety of toys", AS/NZS 8124: Part 2: 2016.
- The labeling requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".
- The mechanical hazards requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".

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EXECUTIVE SUMMARY:

The sample(s) MEET the following requirement(s):

- The mechanical hazards requirements of the tested sections of Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 and Schedule 2.
- The cellulose nitrate requirements of Canada Toys Regulations, SOR/2011-17, section 21.
- The mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys", EN71: Part 1:2014, clauses 1-7.
- The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2011+ A1: 2014.
- The migration of certain elements requirements of the AS/NZS Standard, "Safety of toys", AS/NZS 8124: Part 3: 2012 with Amendment No. 1: 2016.
- The soluble heavy metals content in substrate requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).
- The phthalates (BBP, DBP, DEHP, DINP, DIBP, DPENP, DHEXP & DCHP) content requirements of the Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(a) and 108(c), 16 CFR 1307).
- The total lead content of 100ppm requirements by composite testing in substrate materials (Consumer Products Safety Improvement Act (CPSIA) of 2008).
- The diisobutyl phthalate (DIBP) content requirement in toys of the European Council Directive 2009/48/EC (and its amendments), Annex II, Part III, Point 3.
- The BBP, DBP and DEHP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 51.
- The cadmium content requirement of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 23 (amended up to EU No. 2016/217).
- The DNOP, DINP and DIDP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 52.
- The migration of certain elements in Category III Scraped off toy material requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2013+A2:2017.
- The 17 phthalates content requirements of the client's specifications.



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EXECUTIVE SUMMARY:

The style# A, C sample(s) MEET the following requirement(s):

- The total lead content of 90ppm requirements of 16 CFR 1303, "Ban of lead-containing paint and certain consumer products bearing lead-containing paint" as mandated by Congress in section 101(f) of the Consumer Products Safety Improvement Act (CPSIA) of 2008, Public Law 110-314.
- The soluble heavy metals content in surface coating requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.1(2).
- The applicable heavy metals content requirements for surface coatings of the Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 Sec. 23 with Amendment in SOR/2016-195.

The style# B sample(s) MEET the following requirement(s):

- The initial total heavy metals content analysis for soluble heavy metals content in plastic requirement of Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 Sec. 27(a) with Amendment in SOR/2016-302.
- The total lead content in substrate requirements for products intended for use in play or learning for children under 3 years of age of the Canada Consumer Product Safety Act, Consumer Products Containing Lead (Contact with Mouth) Regulations SOR/2010-273 with Amendment in SOR/2016-171.

Note: The sample(s) was not evaluated to the Normal Use testing requirements specified in ASTM F963-17, Section 8.5. It is the responsibility of the manufacturer, vendor or distributor to conduct tests that will simulate normal use conditions. These tests shall ensure that hazards are not generated through normal wear and deterioration of the sample(s). These tests shall also simulate the normal play mode of the toy and to simulate the expected mode of use of the particular toy. The tests shall be conducted in an expected use environment. These normal use tests shall simulate the intended use of the toy based on its estimated lifetime.

- Note: The toy is intended for children under 36 months. The small parts warning present on the relevant package is not applicable. (For style B)
- Note: According to TSD 2009/48/EC, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or, where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.
- Note: According to TSD 2009/48/EC, the manufacturers/importer shall indicate their name, registered trade name or registered trade mark and the address at which they can be contacted on the toy, or, where that is not possible, on its packaging or in a document accompanying the toy.
- Note: Based on visual evaluation and/or material breakdown received, there is no applicable material(s) found in the sample(s) submitted and thus the corresponding testing of EC No.1907/2006 Azodyes content; EC Directive 2009/48/EC formamide has/have not been conducted.



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(*)EXECUTIVE SUMMARY:

Note: Based on visual evaluation and/or material breakdown received, there is no polyvinyl chloride (PVC) found in

the samples submitted and thus the corresponding testing of the Canada Consumer Product Safety Act, Phthalates Regulations, SOR/2016-188 regarding to the restriction of use of certain phthalates content have

not been conducted.

Note: This report is amendment of and supersedes the previous (8518)191-0811 dated August 20, 2018.

BUREAU VERITAS SHENZHEN CO., LTD.

Hon Yin Kan Manager

Toys And Juvenile Products Department

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RESULTS:

For style A, C:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the Age Determination Guidelines of the Consumer Product Safety Commission (CPSC); and the ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety". Annex A1

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

testing.

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

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

USE AND ABUSE TESTS

The samples were undergo the tests in accordance with section 8.6 through 8.16, whichever is applicable					
Test Test Parameters Standard Reference					
Torque Test	4 in-lbs	1500.53(e)			
Tension Test	15 lbs	1500.53(f)			
Compression Test	30 lbs	1500.53(g)			



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RESULTS:

For style A, C:

PHYSICAL AND MECHANICAL HAZARDS (ASTM F963-17)

Section	Requirement	Result
4.1	Material Quality	М
4.3.7	Stuffing Materials	N/A
4.5	Sound-Producing Toys	N/A
4.6	Small Objects	N/A
4.7	Accessible Edges	М
4.8	Projections	N/A
4.9	Accessible Points	М
4.10	Wires and Rods	N/A
4.11	Nails and Fasteners	М
4.12	Plastic Film	М
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	М
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 (exclude Section 4.25.10 Battery-powered ride-on toys & Section 4.25.11 Toys that Contain Secondary Cells or Secondary Batteries)	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
4.30	Toy Gun Marking	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.34	Small 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 Materials	N/A



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RESULTS:

For style A, C:

LABELING AND INSTRUCTIONAL REQUIREMENT (ASTM F963-17)

Section	Requirement	Result
5.4 & 5.3	Aquatic Toys	N/A
5.5 & 5.3	Crib and Playpen Toys	N/A
5.6 & 5.3	Mobiles	N/A
5.7 & 5.3	Stroller and Carriage Toys	N/A
5.8 & 5.3	Toys Intended to be Assembled by an Adult	N/A
5.9 & 5.3	Simulated Protective Devices	N/A
5.10 & 5.3	Toys with Functional Sharp Edges or Sharp Points	N/A
5.11	Small Objects, Small Balls, Marbles and Balloons (16 CFR 1500.19)	N/A
5.12	Toy Caps (16CFR1500.86)	N/A
5.13	Art Materials (16 CFR 1500.14(b)(8))	N/A
5.15	Battery-Operated Toys (exclude 5.15.1 and 5.15.2)	N/A
5.15.1 & 5.3	Battery-Powered Ride-On Toys	N/A
5.15.2 & 5.3	Button or Coin Cell Batteries	N/A
5.16	Promotional Materials	M
5.17 & 5.3	Magnets	N/A
6.1	Definition and Description	M
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4 & 5.3	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
7.1	Producer's Name and Address	M
7.2	Battery-Powered Ride-on Toys	N/A

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



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RESULTS:

For style B:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the Age Determination Guidelines of the Consumer Product Safety Commission (CPSC); and the ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety". Annex A1

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

testing.

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

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

USE AND ABUSE TESTS

The samples were undergo the tests in accordance with section 8.6 through 8.16, whichever is applicable			
Test	Test Parameters	Standard Reference	
Tip Over Test	3 times	1500.52(b)(4)(i)	
Torque Test	4 in-lbs	1500.53(e)	
Tension Test	15 lbs	1500.53(f)	
Compression Test	30 lbs	1500.53(g)	



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RESULTS:

For style B:

PHYSICAL AND MECHANICAL HAZARDS (ASTM F963-17)

Section	Requirement	Result
4.1	Material Quality	М
4.3.7	Stuffing Materials	N/A
4.5	Sound-Producing Toys	N/A
4.6	Small Objects	М
4.7	Accessible Edges	М
4.8	Projections	N/A
4.9	Accessible Points	М
4.10	Wires and Rods	N/A
4.11	Nails and Fasteners	N/A
4.12	Plastic Film	N/A
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
	(exclude Section 4.25.10 Battery-powered ride-on toys & Section 4.25.11 Toys that Contain Secondary Cells or Secondary Batteries)	
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.30	Toy Gun Marking	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.34	Small 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 Materials	N/A



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RESULTS:

For style B:

LABELING AND INSTRUCTIONAL REQUIREMENT (ASTM F963-17)

Section	Requirement	Result
5.4 & 5.3	Aquatic Toys	N/A
5.5 & 5.3	Crib and Playpen Toys	N/A
5.6 & 5.3	Mobiles	N/A
5.7 & 5.3	Stroller and Carriage Toys	N/A
5.8 & 5.3	Toys Intended to be Assembled by an Adult	N/A
5.9 & 5.3	Simulated Protective Devices	N/A
5.10 & 5.3	Toys with Functional Sharp Edges or Sharp Points	N/A
5.11	Small Objects, Small Balls, Marbles and Balloons (16 CFR 1500.19)	N/A
5.12	Toy Caps (16CFR1500.86)	N/A
5.13	Art Materials (16 CFR 1500.14(b)(8))	N/A
5.15	Battery-Operated Toys (exclude 5.15.1 and 5.15.2)	N/A
5.15.1 & 5.3	Battery-Powered Ride-On Toys	N/A
5.15.2 & 5.3	Button or Coin Cell Batteries	N/A
5.16	Promotional Materials	М
5.17 & 5.3	Magnets	N/A
6.1	Definition and Description	M
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4 & 5.3	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
7.1	Producer's Name and Address	М
7.2	Battery-Powered Ride-on Toys	N/A

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



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RESULTS:

FLAMMABILITY (16 CFR SECTION 1500.3(c)6)(vi))

Requirement	Test Method Reference	Findings
Burn rate no greater than 0.1 of an inch per second	16 CFR 1500.44	Did not ignite.

FLAMMABILITY OF CELLULOSE NITRATE TOY REGULATIONS SOR/2011-17 SECTION 21

Requirement Reference	Observation	Flammability Classification
Section 21	No Flash Effect	М

M = Meet NM-See comment = Not Meet - Refer to Comment Section NA = Not Applicable



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RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the EN71: Part 1: 2014, CEN ISO/TR 8124-8:2016 Safety of toys - Part 8: Age determination guidelines prepared by Technical Committee CEN/TC 52 and Age Grade Determination Guidelines of the Consumer Product Safety Commission (CPSC).

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

used for testing.

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

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

for testing.

EXPLANATION OF THE ABBREVIATIONS FOR PART 1, 2 & 6

Symbol	Explanation					
NM	The sample(s) DOES NOT MEET the requirement of this Subclause					
M	The sample(s) MEET	the require	ment of this Subclause			
N/A	Not Applicable					
NR	Not Requested					
NE	Not Evaluated					
NT	Not Tested					
NP	None Present					
Р	Present					
R	Refer to Comment Se	ction of this	report			
Symbol	Language Present	Symbol	Language Present	Symbol	Language Present	
В	Belgian language	G	German language	PR	Portuguese language	
D	Danish language GR Greek language S Spanish language					
E	English language H Dutch language SD Swedish language					
F	Finnish language I Italian language SZ Swiss language					
FR	French language	N	Norwegian language			



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RESULTS:

For style A, C:

Subclause	Requirement	Result
4.1	Material cleanliness	M
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7 & 7.6	Edges	M
4.8 & 7.6	Points and metallic wires	M
4.8e	Splinters	M
4.9	Protruding parts	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12 & 7.3	Balloons	NA
4.13 & 7.9	Cord of toy kites and other flying toys	NA
4.14.1	Toys which a child can enter	NA
4.14.2 & 7.8	Masks and helmets	NA
4.15.1	Toys propelled by child	
4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16	Toys propelled by child – Instructions for use	NA
4.15.1.3	Toys propelled by child – Strength	NA
4.15.1.4	Toys propelled by child – Stability	NA
4.15.1.5	Toys propelled by child – Braking	NA
4.15.1.6	Toys propelled by child - Transmission	NA
4.15.1.7	Toys propelled by child – insertion mark	NA
4.15.1.8	Electrically-driven ride-on toys	NA
4.15.2	Toy bicycles	
4.15.2.2 & 7.15	Toy bicycles – Warnings and instructions for use	NA
4.15.2.3	Toy bicycles – Braking	NA
4.15.3 & 7.16 & 7.19	Rocking horses and similar toys	NA
4.15.4 & 7.16	Toys not propelled by child	NA
4.15.5 & 7.18	Toy scooters	NA
4.16	Heavy immobile toys	NA
4.17.1	Projectiles – General	NA



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RESULTS:

For style A, C:

Subclause	Requirement	Result
4.17.2	Projectiles toys without stored energy	NA
4.17.3 & 7.7	Projectile toys with stored energy	NA
4.17.4 & 7.7	Bows and arrows	NA
4.18 & 7.4	Aquatic toys and inflatable toys	NA
4.19 & 7.13 &	Percussion caps	NA
7.14	·	
4.20.2.1-	Acoustics	NA
4.20.2.8, 4.20.2.10.		
4.20.2.10,		
4.20.2.9,	Acoustics – percussion toys & cap-firing toys	NA
4.20.2.11 & 7.14	, todasion persusoien tojo dreap illing tojo	
4.21	Toys containing a non-electrical heat source	NA
4.22 & 7.2	Small balls	NA
4.23	Magnet	
4.23.2 a, b & c	Toy other than magnetic / electrical experimental sets intended for children over 8 years	NA
4.23.3 & 7.20	Magnetic / electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo ball	NA
4.25	Toys attached to food	NA
	FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS	
5.1	General	M
5.1a	Small parts – as received	M
5.1b	Small parts, sharp points, sharp edges – after tests	M
5.1c	Cross section <2mm metal points & wires	NA
5.1e	Toys contain glue	NA
5.1f	Casing of toys	NA
5.2	Fillings, coverings and seams	NA
5.3	Adhesion of plastic sheeting	NA
5.4 &	Cords on toys	NA
5.4(a)	Cords connected to self-retraction mechanism or in pull along toys	NA
5.4(b) & 7.22	Cords and chains that can form tangled loop or noose	NA
5.4(c) & 7.22	Fixed loop of cords or chains	NA
5.4(d)	Nooses	NA
5.4(e)	Self-retraction mechanism	NA
5.4(f) & 7.11	Toy across cradle, cot or perambulator	NA
5.4(g) & 7.22	Cords and chains with free end (exclude pull along toy)	NA
5.4(h)	Cords and chains with free end on pull along toy	NA
5.4(i) & 7.21	Electrical cables	NA



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RESULTS:

For style A, C:

(LN71. FART 1 - 2014)				
Subclause	Requirement	Result		
5.5 & 7.12	Liquid filled toys	NA		
5.6	Electrically driven toys	NA		
5.7	Glass and porcelain	NA		
5.8	Shape and size	NA		
5.9 & 7.17	Monofilament fibres	NA		
5.10	Small balls	NA		
5.11	Play figures	NA		
5.12	Hemispheric shaped toys	NA		
5.13	Suction cups	NA		
5.14	Straps intended to be worn fully or partially around the neck	NA		
6	Packaging	NA		
	WARNINGS, INSTRUCTIONS FOR USE			
7.1	General	NA		
7.2	Toys not intended for children under 36 months	NA		
7.5	Functional toys	NA		



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RESULTS:

For style A, C:

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 1

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

2009/48/EC General Labeling Requirement

Requirement	Result
CE Mark	М
Manufacturer/ Importer name and address	М
Product Identification	М



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RESULTS:

For style B:

Subclause	Requirement	Result
4.1	Material cleanliness	M
4.2	Assembly	М
4.3	Flexible plastic sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7 & 7.6	Edges	M
4.8 & 7.6	Points and metallic wires	M
4.8e	Splinters	М
4.9	Protruding parts	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12 & 7.3	Balloons	NA
4.13 & 7.9	Cord of toy kites and other flying toys	NA
4.14.1	Toys which a child can enter	NA
4.14.2 & 7.8	Masks and helmets	NA
4.15.1	Toys propelled by child	
4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16	Toys propelled by child – Instructions for use	NA
4.15.1.3	Toys propelled by child – Strength	NA
4.15.1.4	Toys propelled by child – Stability	NA
4.15.1.5	Toys propelled by child – Braking	NA
4.15.1.6	Toys propelled by child - Transmission	NA
4.15.1.7	Toys propelled by child – insertion mark	NA
4.15.1.8	Electrically-driven ride-on toys	NA
4.15.2	Toy bicycles	
4.15.2.2 & 7.15	Toy bicycles – Warnings and instructions for use	NA
4.15.2.3	Toy bicycles – Braking	NA
4.15.3 & 7.16 & 7.19	Rocking horses and similar toys	NA
4.15.4 & 7.16	Toys not propelled by child	NA
4.15.5 & 7.18	Toy scooters	NA
4.16	Heavy immobile toys	M
	Projectiles – General	NA
4.17.1		



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RESULTS:

For style B:

Subclause	Requirement	Result
4.17.3 & 7.7	Projectile toys with stored energy	NA
4.17.4 & 7.7	Bows and arrows	NA
4.18 & 7.4	Aquatic toys and inflatable toys	NA
4.19 & 7.13 & 7.14	Percussion caps	NA
4.20.2.1- 4.20.2.8, 4.20.2.10, 4.20.2.12	Acoustics	NA
4.20.2.9, 4.20.2.11 & 7.14	Acoustics – percussion toys & cap-firing toys	NA
4.21	Toys containing a non-electrical heat source	NA
4.22 & 7.2	Small balls	NA
4.23	Magnet	
4.23.2 a, b & c	Toy other than magnetic / electrical experimental sets intended for children over 8 years	NA
4.23.3 & 7.20	Magnetic / electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo ball	NA
4.25	Toys attached to food	NA
	FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS	
5.1	General	NA
5.1a	Small parts – as received	NA
5.1b	Small parts, sharp points, sharp edges – after tests	NA
5.1c	Cross section <2mm metal points & wires	NA
5.1e	Toys contain glue	NA
5.1f	Casing of toys	NA
5.2	Fillings, coverings and seams	NA
5.3	Adhesion of plastic sheeting	NA
5.4 &	Cords on toys	NA
5.4(a)	Cords connected to self-retraction mechanism or in pull along toys	NA
5.4(b) & 7.22	Cords and chains that can form tangled loop or noose	NA
5.4(c) & 7.22	Fixed loop of cords or chains	NA
5.4(d)	Nooses	NA
5.4(e)	Self-retraction mechanism	NA
5.4(f) & 7.11	Toy across cradle, cot or perambulator	NA
5.4(g) & 7.22	Cords and chains with free end (exclude pull along toy)	NA
5.4(h)	Cords and chains with free end on pull along toy	NA
5.4(i) & 7.21	Electrical cables	NA
5.5 & 7.12	Liquid filled toys	NA



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RESULTS:

For style B:

Subclause	Requirement	Result
5.6	Electrically driven toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size	NA
5.9 & 7.17	Monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
6	Packaging	М
	WARNINGS, INSTRUCTIONS FOR USE	
7.1	General	М
7.2	Toys not intended for children under 36 months	М
7.5	Functional toys	NA



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RESULTS:

For style B:

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 1

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

2009/48/EC General Labeling Requirement

Requirement	Result
CE Mark	M
Manufacturer/ Importer name and address	M
Product Identification	M



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RESULTS:

FLAMMABILITY (EN 71 PART 2: 2011 + A1: 2014)

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

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

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



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RESULTS:

For style B:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is recommended with reference to the Toys: Age Classification Guidelines (1998-01-13) of the Product Safety Bureau, Health Canada.

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

testing.

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

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

CANADA CONSUMER PRODUCT SAFETY ACT

Test Method : CANADA CONSUMER PRODUCT SAFETY ACT

REASONABLY FORESEEABLE USE TESTS				
Test	Test Parameters			
Drop	3 times			
Push/Pull	10 lbs			



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RESULTS:

For style B:

CANADA CONSUMER PRODUCT SAFETY ACT, TOYS REGULATIONS, SOR/2011-17

Section	Parameter / Requirement	Result
Mechanica	Il Hazards	
4	Flexible film bag used for package	NA
7	Small Toys and Detachable component	M
8	Metal edge	NA
9	Wires frames	NA
10	Plastic Edges	M
11	Wood	NA
12	Glass	NA
13	Nails and fasteners	NA
14	Safety stops/Locking Device for Folding product	NA
15 (a, b)	Moving Mechanism	NA
15 (c)	Non- Detachable Winding Key Clearance	NA
15 (d)	Detachable Key	NA
16	Projectile Toy	NA
17	Enclosures	NA
18	Stability	NA
19	Auditory hazards	NA
Specific Pr	roducts - Dolls, Plush Toys and Soft Toys	
28	Exposed Sharp Points and Edges	NA
29. (a)	Stuffing Materials shall be clean and free from vermin	NA
29. (b)	Stuffing Materials shall be free from hard and sharp foreign matter	NA
30	Squeaker, Reed and Valve	NA
31	Eyes and Nose	NA
Specific Pr	roducts	<u> </u>
35*&36*	Plant seeds	NA
37	Pull and Push toys	NA
38*	Toys Steam engine Boilers	NA
39*	Finger Paints	NA
40(a)	Rattles – Sharp wire	NA
40(b, c)	Rattles – Impaction	NA
41	Elastic	NA
42	Yo-Yo type balls	NA



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RESULTS:

For style B:

CANADA CONSUMER PRODUCT SAFETY ACT, SCHEDULE 2

Section	Parameter / Requirement	Result			
Mechanical Hazards					
1*	Jequirity Beans	М			
8*	Kites	NA			
9	Kite strings	NA			
14*	Lawn, darts with elongated tips	NA			

M = Meet NM = Not Meet NA = Not Applicable R = Refer to Comment Section * = Non-accreditated section



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RESULTS:

For style A, C:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is recommended with reference to the Toys: Age Classification Guidelines (1998-01-13) of the Product Safety Bureau, Health Canada.

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

testing.

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

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

CANADA CONSUMER PRODUCT SAFETY ACT

Test Method : CANADA CONSUMER PRODUCT SAFETY ACT

REASONABLY FORESEEABLE USE TESTS			
Test Test Parameters			
Drop	3 times		
Push/Pull	10 lbs		



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RESULTS:

For style A, C:

CANADA CONSUMER PRODUCT SAFETY ACT, TOYS REGULATIONS, SOR/2011-17

Section	Parameter / Requirement	Result
Mechanica	Il Hazards	<u>.</u>
4	Flexible film bag used for package	M
7	Small Toys and Detachable component	NA
8	Metal edge	M
9	Wires frames	M
10	Plastic Edges	M
11	Wood	M
12	Glass	NA
13	Nails and fasteners	M
14	Safety stops/Locking Device for Folding product	NA
15 (a, b)	Moving Mechanism	NA
15 (c)	Non- Detachable Winding Key Clearance	NA
15 (d)	Detachable Key	NA
16	Projectile Toy	NA
17	Enclosures	NA
18	Stability	NA
19	Auditory hazards	NA
Specific P	roducts - Dolls, Plush Toys and Soft Toys	<u>.</u>
28	Exposed Sharp Points and Edges	NA
29. (a)	Stuffing Materials shall be clean and free from vermin	NA
29. (b)	Stuffing Materials shall be free from hard and sharp foreign matter	NA
30	Squeaker, Reed and Valve	NA
31	Eyes and Nose	NA
Specific P	roducts	
35*&36*	Plant seeds	NA
37	Pull and Push toys	NA
38*	Toys Steam engine Boilers	NA
39*	Finger Paints	NA
40(a)	Rattles – Sharp wire	NA
40(b, c)	Rattles – Impaction	NA
41	Elastic	NA
42	Yo-Yo type balls	NA



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RESULTS:

For style A, C:

CANADA CONSUMER PRODUCT SAFETY ACT, SCHEDULE 2

Section	Parameter / Requirement	Result		
Mechanica	Mechanical Hazards			
1*	Jequirity Beans	M		
8*	Kites	NA		
9	Kite strings	NA		
14*	Lawn, darts with elongated tips	NA		

M = Meet NM = Not Meet NA = Not Applicable R = Refer to Comment Section * = Non-accreditated section



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RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the Age-grading guidelines of the Annex A of the AS/NZS ISO Standard, "Safety of toys", ISO 8124:Part 1:2016.

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

used for testing.

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

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

for testing.



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RESULTS:

For style A, C:

Subclause	Requirement	Result
4.1	Normal use	M
4.2	Reasonably foreseeable abuse	M
4.3	Material	-
4.3.1	Material quality	M
4.3.2	Expanding materials	N/A
4.4	Small parts	-
4.4.1	Small parts (under 36 months)	N/A
4.4.2	Small parts warning (36 months and over but under 72 months)	N/A
4.5	Shape, size and strength of certain toys	-
4.5.1	Squeeze toys, rattles, fasteners, and certain other toys and components of toys	N/A
4.5.2a	Small ball (under 36 months)	N/A
4.5.2b	Small ball warning (36 months and over but under 96 months)	N/A
4.5.3	Pompoms	N/A
4.5.4	Pre-school play figures	N/A
4.5.5	Toy pacifiers	N/A
4.5.6	Balloons Warning	N/A
4.5.7	Marbles Warning	N/A
4.5.8	Hemispheric-shaped toys	N/A
4.6	Edges	-
4.6.1	Accessible sharp edges of glass or metal	M
4.6.2	Functional sharp edges warning	N/A
4.6.3	Edges on metal toys	N/A
4.6.4	Edges on moulded toys	М
4.6.5	Edges on exposed bolts or threaded rods	N/A
4.7	Points	-
4.7.1	Accessible sharp points	M
4.7.2	Functional sharp points warning	N/A
4.7.3	Wooden toys	M
4.8	Projections	ı
4.8.1	General	N/A
4.8.2	Special considerations for bath toy projections	-
4.9	Metal wires and rods	
4.9a	Metal wires and rods intended to be bent	N/A
4.9b	Metal wires and rods likely to be bent	N/A
4.9c	End of spokes	N/A
4.10	Plastic film or plastic bags in packaging and in toys	M



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RESULTS:

For style A, C:

Subclause	Requirement	Result
4.11	Cords and elastics	-
4.11.1	Cords and elastics (under 18 months)	N/A
4.11.2	Self-retracting pull cords (under 18 months)	N/A
4.11.3	Cords for pull toys (under 36 months)	N/A
4.11.4	Cords on toy bags	N/A
4.11.5	Crib or playpen toys and mobiles warning & instruction for use	N/A
4.11.6	Crib gyms and similar toys warning & instruction for use	N/A
4.11.7	Cords, strings and lines for flying toys	N/A
4.11.7	Warning - Toy kites and other flying toys with cord	N/A
4.12	Folding mechanisms	-
4.12.1	Toy pushchairs, perambulators and similar toys	N/A
4.12.2	Other toys with folding mechanisms	N/A
4.12.3	Hinge-line clearance	N/A
4.13	Holes, clearances and accessibility of mechanisms	-
4.13.1	Circular holes in rigid materials (under 60 months)	N/A
4.13.2	Accessible clearances for movable segments (under 96 months)	N/A
4.13.3	Chains or belts in ride-on toys	N/A
4.13.4	Other driving mechanisms	N/A
4.13.5	Winding keys (under 36 months)	N/A
4.14	Springs	N/A
4.15	Stability and overload requirements	-
4.15.1	Stability of ride-on toys and seats (under 60 months)	-
4.15.1.1	Sideways stability, feet available for stabilization	N/A
4.15.1.2	Sideways stability, feet unavailable for stabilization	N/A
4.15.1.3	Fore and aft stability	N/A
4.15.2	Overload requirements for ride-on toys and seats	N/A
4.15.3	Stability of stationary floor toys	N/A
4.16	Enclosures	-
4.16.1	Ventilation	N/A
4.16.2	Closures	-
4.16.2.1	Lids, doors and similar devices	N/A
4.40.00	Lid support for toy chests and similar toys	N/A
4.16.2.2	Instruction for assembly	N/A
4.16.3	Toys that enclose the head	N/A
4.47	Simulated protective equipment	N/A
4.17	Warning	N/A
4.18	Projectile toys	-



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RESULTS:

For style A, C:

MECHANICAL & PHYSICAL PROPERTIES - (AS/NZS 8124.1:2016)

Subclause	Requirement	Result		
4.18.1	General	-		
4.18.2	Projectiles	N/A		
4.18.3	Projectile toys with stored energy	N/A		
4.10.3	Instruction for use	N/A		
4 10 4	Projectile toys without stored energy	N/A		
4.18.4	Instruction for use	N/A		
4.19	Rotors and propellers	N/A		
4.20	Aquatic toys	N/A		
4.20	Warning	N/A		
4.21	Braking	N/A		
4.22	Toy bicycles	-		
4.22.1	Toy bicycles – Instruction for use	N/A		
4.22.2	Toy bicycles – Maximum saddle height	N/A		
4.22.3	Toy bicycles – Braking requirements	N/A		
4.23	Speed limitation of electrically driven ride-on toys	N/A		
4.24	Toys containing a heat source	N/A		
4.05	Liquid-filled toys	N/A		
4.25	Warning	N/A		
4.26	Mouth-actuated toys	N/A		
4.07	Toy roller skates, toy inline skates and toy skateboards	N/A		
4.27	Warning	N/A		
4.00	Percussion caps	N/A		
4.28	Warning	N/A		
4.00	Acoustic requirement	N/A		
4.29	Warning	N/A		
4.30	Toy scooters	N/A		
4.31	Magnets and magnetic components	-		
1011	Magnetic/electrical experimental sets (for children 8 years and over)	N/A		
4.31.1	Warning	N/A		
4.31.2	All other toys with magnets and magnetic components (under 8 years)			
4.31.2 a	Loose-as-received magnet(s) and magnetic component(s)	N/A		
4.31.2 b	Wooden toys, toys intended in water and mouth pieces of mouth-actuated toys with magnets or magnetic components			
4.31.2 c	Magnet(s) and magnetic component(s) liberated from toy	N/A		

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



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RESULTS:

For style B:

Subclause	Requirement	Result		
4.1	Normal use	М		
4.2	Reasonably foreseeable abuse	М		
4.3	Material			
4.3.1	Material quality			
4.3.2	Expanding materials	N/A		
4.4	Small parts	•		
4.4.1	Small parts (under 36 months)	М		
4.4.2	Small parts warning (36 months and over but under 72 months)	N/A		
4.5	Shape, size and strength of certain toys	•		
4.5.1	Squeeze toys, rattles, fasteners, and certain other toys and components of toys	N/A		
4.5.2a	Small ball (under 36 months)	N/A		
4.5.2b	Small ball warning (36 months and over but under 96 months)	N/A		
4.5.3	Pompoms	N/A		
4.5.4	Pre-school play figures	N/A		
4.5.5	Toy pacifiers	N/A		
4.5.6	Balloons Warning	N/A		
4.5.7	Marbles Warning	N/A		
4.5.8	Hemispheric-shaped toys	N/A		
4.6	Edges	-		
4.6.1	Accessible sharp edges of glass or metal	N/A		
4.6.2	Functional sharp edges warning	N/A		
4.6.3	Edges on metal toys	N/A		
4.6.4	Edges on moulded toys	М		
4.6.5	Edges on exposed bolts or threaded rods	N/A		
4.7	Points	-		
4.7.1	Accessible sharp points	М		
4.7.2	Functional sharp points warning	N/A		
4.7.3	Wooden toys	N/A		
4.8	Projections	-		
4.8.1	General	N/A		
4.8.2	Special considerations for bath toy projections	-		
4.9	Metal wires and rods	-		
4.9a	Metal wires and rods intended to be bent	N/A		
4.9b	Metal wires and rods likely to be bent	N/A		
4.9c	End of spokes	N/A		
4.10	Plastic film or plastic bags in packaging and in toys	N/A		



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RESULTS:

For style B:

Subclause				
4.11	Cords and elastics	-		
4.11.1	Cords and elastics (under 18 months)	N/A		
4.11.2	Self-retracting pull cords (under 18 months)	N/A		
4.11.3	Cords for pull toys (under 36 months)	N/A		
4.11.4	Cords on toy bags	N/A		
4.11.5	Crib or playpen toys and mobiles warning & instruction for use	N/A		
4.11.6	Crib gyms and similar toys warning & instruction for use	N/A		
4.11.7	Cords, strings and lines for flying toys	N/A		
4.11.7	Warning - Toy kites and other flying toys with cord	N/A		
4.12	Folding mechanisms	-		
4.12.1	Toy pushchairs, perambulators and similar toys	N/A		
4.12.2	Other toys with folding mechanisms	N/A		
4.12.3	Hinge-line clearance	N/A		
4.13	Holes, clearances and accessibility of mechanisms	-		
4.13.1	Circular holes in rigid materials (under 60 months)	N/A		
4.13.2	Accessible clearances for movable segments (under 96 months)	N/A		
4.13.3	Chains or belts in ride-on toys	N/A		
4.13.4	Other driving mechanisms	N/A		
4.13.5	Winding keys (under 36 months)	N/A		
4.14	Springs	N/A		
4.15	Stability and overload requirements	-		
4.15.1	Stability of ride-on toys and seats (under 60 months)	-		
4.15.1.1	Sideways stability, feet available for stabilization	N/A		
4.15.1.2	Sideways stability, feet unavailable for stabilization	N/A		
4.15.1.3	Fore and aft stability	N/A		
4.15.2	Overload requirements for ride-on toys and seats	N/A		
4.15.3	Stability of stationary floor toys	N/A		
4.16	Enclosures	-		
4.16.1	Ventilation	N/A		
4.16.2	Closures	-		
4.16.2.1	Lids, doors and similar devices	N/A		
4.40.00	Lid support for toy chests and similar toys	N/A		
4.16.2.2	Instruction for assembly	N/A		
4.16.3	Toys that enclose the head	N/A		
	Simulated protective equipment	N/A		
4.17	Warning	N/A		
4.18	Projectile toys	_		



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RESULTS:

For style B:

Subclause	Requirement	Result		
4.18.1	General	-		
4.18.2	Projectiles	N/A		
4.18.3	Projectile toys with stored energy	N/A		
4.10.3	Instruction for use	N/A		
4.18.4	Projectile toys without stored energy	N/A		
4.18.4	Instruction for use	N/A		
4.19	Rotors and propellers	N/A		
4.20	Aquatic toys	N/A		
4.20	Warning	N/A		
4.21	Braking	N/A		
4.22	Toy bicycles	-		
4.22.1	Toy bicycles – Instruction for use	N/A		
4.22.2	Toy bicycles – Maximum saddle height	N/A		
4.22.3	Toy bicycles – Braking requirements	N/A		
4.23	Speed limitation of electrically driven ride-on toys	N/A		
4.24	Toys containing a heat source	N/A		
4.05	Liquid-filled toys	N/A		
4.25	Warning	N/A		
4.26	Mouth-actuated toys	N/A		
4.07	Toy roller skates, toy inline skates and toy skateboards	N/A		
4.27	Warning	N/A		
4.00	Percussion caps	N/A		
4.28	Warning	N/A		
4.00	Acoustic requirement	N/A		
4.29	Warning	N/A		
4.30	Toy scooters	N/A		
4.31	Magnets and magnetic components	-		
4.04.4	Magnetic/electrical experimental sets (for children 8 years and over)	N/A		
4.31.1	Warning	N/A		
4.31.2	All other toys with magnets and magnetic components (under 8 years)			
4.31.2 a	Loose-as-received magnet(s) and magnetic component(s)	N/A		
4.31.2 b	Wooden toys, toys intended in water and mouth pieces of mouth-actuated toys with magnets or magnetic components			
4.31.2 c	Magnet(s) and magnetic component(s) liberated from toy	N/A		



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RESULTS:

FLAMMABILITY (AS/NZS 8124.2: 2016)

Subclause	Requirement	Result
4.1	Celluloid (cellulose nitrate)	NP
4.1	Surface flash on a piled surface	NA
4.1	Flammable Gases	NA
4.1	.1 Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.3	warning on product and packaging (10 - 30 mm/s)	NA
4.4	Toys intended to be entered by a child	NA
4.4	warning on product and packaging (10 - 30 mm/s)	NA
4.5	Soft - filled toys	NA

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section P = Present NP = Not Meet N/A = Not Meet N/A = Not Applicable N/A = Not ApplicableNot Present



CARPENTERS MANUFACTORY LIMITED

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RESULTS:

TOTAL LEAD CONTENT IN SURFACE COATING ("Ban of Lead-containing paint and certain consumer products bearing Lead-containing paint", Consumer Product Safety Improvement Act (CPSIA) of 2008)

Test Method: U.S. CPSC-CH-E1003.09.1:2011

Analyte	Lead
Requirement: Maximum allowable limit:	90 mg/kg

Anal	yte			Lead (Pb)	
	Sample Description				Conclusion
	Color / Component	(mg/kg)			
(A)	Clear coating	Table	A,C	LT 10	PASS
(B)	Green coating	Table	A,C	LT 10	PASS
(C)	Blue coating	Table	A,C	LT 10	PASS
(D)	Red coating	Table	A,C	LT 10	PASS

LT = Less Than

mg/kg =milligrams per kilogram (ppm=parts per million)

* = Average of duplicate analyses

Remark

In some cases, the tested component cannot be tested individually due to overlapped coatings.



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RESULTS:

TOTAL LEAD CONTENT IN SUBSTRATE BY COMPOSITE TESTING (100PPM) (Consumer Product Safety Improvement Act (CPSIA) of 2008)

Test Method: U.S. CPSC-CH-E1001-08.3:2012 or U.S. CPSC-CH-E1002-08.3:2012

Analyte	Lead
Requirement: Maximum allowable limit:	100 mg/kg

Anal	yte	Lead (Pb)			
	Sample	e Description		Result	Conclusion
	Color / Component	Location	Style	(mg/kg)	
(A)	Deep blue plastic	Tray	В	LT 10	PASS
(B)	Grey soft plastic	Wheels	Α	LT 10	PASS
	Deep grey plastic	Fixer of wheels	Α		
	Bright deep grey plastic	Brake	Α		
(C)	White plastic	Back of wheels	Α	LT 10	PASS
	Light grey plastic	Wheels	С		
(D)	Light grey soft plastic	Pad of wheels	С	LT 10	PASS
	Red plastic	Brake			
(E)	Silvery metal	Hexagonal screw		LT 10	PASS
(F)	Bright silvery metal	Screw	Α	LT 10	PASS
(G)	Soft silvery metal	Metal plate	Α	LT 10	PASS
(H)	Matt silvery metal	Screw on metal plate	Α	LT 10	PASS
(I)	Dull silvery metal	Axle of wheels	Α	LT 10	PASS
(J)	Shiny silvery metal	Hexagonal screw	С	LT 10	PASS
(K)	Sharp silvery metal	Screw	С	LT 10	PASS
(L)	Flat silvery metal	Metal plate	С	LT 10	PASS
(M)	Pale silvery metal	Screw on metal plate	С	LT 10	PASS
(N)	Bright flesh wood	Table	A,C	LT 10	PASS

LT = Less Than

mg/kg = milligrams per kilogram (ppm = parts per million)

^{* =} Average of duplicate analyses



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RESULTS:

SOLUBLE HEAVY METALS CONTENT IN SURFACE COATING (ASTM F963-17, Section 4.3.5.1(2))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.2 to 8.3.4

Sample Identity	Color	Location	Style
A.	Clear coating	Table	A,C
B.	Green coating	Table	A,C
C.	Blue coating	Table	A,C
D.	Red coating	Table	A,C

Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se
Maximum Limit (mg/kg)	25	1000	75	60	60	90	60	500
Analytical Correction	60%	30%	30%	30%	50%	30%	60%	60%

Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Sample				Result	(mg/kg)				(g)	
A.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0503	PASS
B.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
C.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
D.	LT 2	3	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS

LT = Less Than

CR = adjusted analytical result

mg/kg = milligrams per kilogram (ppm=parts per million)

* = Average of duplicate analysis

As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Hg = Mercury, Pb = Lead,

Sb = Antimony, Se = Selenium



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RESULTS:

SOLUBLE HEAVY METALS CONTENT IN SUBSTRATE (ASTM F963-17, Section 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3))

Sample Identity	Color	Location	Style
Type I: Subs	strate other than modeling clay		
Α	Deep blue plastic	Tray	В
В	Grey soft plastic	Wheels	A
С	Deep grey plastic	Fixer of wheels	А
D	Bright deep grey plastic	Brake	A
Е	White plastic	Back of wheels	А
F	Light grey plastic	Wheels	С
G	Light grey soft plastic	Pad of wheels	С
Н	Red plastic	Brake	С
1	Bright flesh wood	Table	A,C
J	Deep flesh wood	Table	A,C



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RESULTS:

SOLUBLE HEAVY METALS CONTENT IN SUBSTRATE (ASTM F963-17, Section 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3))

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit Type I	25	1000	75	60	60	90	60	500
(mg/kg) Max. Limit		1000	, ,	- 00	- 00	- 00	- 00	000
Type II (mg/kg)	25	250	50	25	25	90	60	500
Analytical Correction	60%	30%	30%	30%	50%	30%	60%	60%

Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Sample		Result (mg/kg)								
Α	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
В	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
С	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
D	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
Е	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
F	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
G	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
Н	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
I	LT 2	4	LT 2		PASS					
J	LT 2	2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS

mg/kg = milligrams per kilogram (ppm=parts per million) CR = adjusted analytical result

LT = Less Than

ND = None Detected

As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Hg = Mercury, Pb = Lead, Sb = Antimony, Se = Selenium Detection limit (mg/kg): Each element 2

Remark:

Textiles (natural or synthetic) are exempted for lead content requirement according to clarification of Toy Industry Association for ASTM F963-17. The lead content analysis result of corresponding material herein is for client's reference only.



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RESULTS:

HEAVY METALS CONTENT IN SURFACE COATING (Canada Consumer Product Safety Act - Toys Regulations, SOR/2011-17 Sec. 23 with Amendment in SOR/2016-195)

Sample Identity	Color	Location	Style
(A)	Clear coating	Table	A,C
(B)	Green coating	Table	A,C
(C)	Blue coating	Table	A,C
(D)	Red coating	Table	A,C

Analyte		As	Ва	Cd	Hg	Pb	Sb	Se	
Maximum	(T)	-	-	-	ND	90	-	-	
Limit (mg/kg)	(S)	1000	1000	1000	-	-	1000	1000	

Analy	te	As	Ba	Cd	Hg	Pb	Sb	Se		
	Method			Re	esult (mg/k	g)		Conclusion		
(A)	(T)	LT 10	LT 10	LT 10	ND	LT 10	LT 10	LT 10	PASS	
	(S)	-	-	-	-	-	-	-	1 700	
(B)	(T)	LT 10	LT 10	LT 10	ND	13	LT 10	LT 10	PASS	
	(S)	-	-	-	-	-	-	-	PASS	
(C)	(T)	LT 10	LT 10	LT 10	ND	19	LT 10	LT 10	PASS	
	(S)	-	-	-	-	-	-	-	FASS	
(D)	(T)	LT 10	720	LT 10	ND	LT 10	LT 10	LT 10	PASS	
	(S)	-	-	-	-	-	-	-	PASS	

mg/kg = milligrams per kilogram (ppm=parts per million)

*= Average of duplicate analysis

ND = Not detected

(T) = Total Analysis

(S) = Soluble analysis

LT = Less Than

As = Arsenic, Ba = Barium, Cd = Cadmium,

Hg = Mercury, Pb = Lead, Sb = Antimony,

Se = Selenium



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RESULTS:

TOTAL HEAVY METALS CONTENT – INITIAL ANALYSIS FOR SOLUBLE HEAVY METALS CONTENT IN PLASTIC (Canada Consumer Product Safety Act - Toys Regulations, SOR/2011-17 Sec. 27(a) with Amendment in SOR/2016-302)

Sample Identity	Color	Location	Style
Α	Deep blue plastic	Tray	В

Analyte	As	Ва	Cd	Cr	Hg	Sb	Se	
Maximum Limit (mg/kg)	25	1000	75	60	60	60	500	

Analyte	As	Ba	Cd	Cr	Hg	Sb	Se	
Sample			R	esult (mg/kg)			Conclusion
А	LT 7	19	LT 10	LT 7	LT 5	LT 10	LT 10	PASS

mg/kg = milligrams per kilogram (ppm=parts per million)

*= Average of duplicate analysis

ND = Not detected

LT = Less Than

Detection limit (mg/kg): As and Cr = 7, Hg = 5, other elements = 10

As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Hg = Mercury, Sb = Antimony,

Se = Selenium

TOTAL LEAD CONTENT IN SUBSTRATE (Canada Consumer Product Safety Act - Consumer Products Containing Lead (Contact with Mouth) Regulations SOR/2010-273 with Amendment in SOR/2016-171)

Classification: Products intended for use in play or learning for children under 3 years

Analyte	Lead
Requirement: Maximum allowable limit:	90 mg/kg

Anal	yte			Lead (Pb)	
	Sample l	Description		Result	Conclusion
	Color / Component	Location	Style	(mg/kg)	
(A)	Deep blue plastic	Tray	В	LT 10	PASS

LT = Less Than

mg/kg =milligrams per kilogram (ppm=parts per million) ND=Not detected

^{* =} Average of duplicate analyses



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2013+A2:2017)

Test Method: European Standard EN 71 Part 3: 2013+A2:2017, Annex E.

Class: Category III - Scraped off toy material

Sample Identity	Color	Location	Style
A.	Deep blue plastic	Tray	В
B.	Grey soft plastic	Wheels	A
C.	Deep grey plastic	Fixer of wheels	A
D.	Bright deep grey plastic	Brake	А
E.	White plastic	Back of wheels	А
F.	Light grey plastic	Wheels	С
G.	Light grey soft plastic	Pad of wheels	С
H.	Red plastic	Brake	С
I.	Clear coating	Table	A,C
J.	Bright flesh wood	Table	A,C
K.	Deep flesh wood	Table	С
L.	Green coating	Table	A,C
M.	Blue coating	Table	A,C
N.	Red coating	Table	A,C



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2013+A2:2017)

Test Method : European Standard EN 71 Part 3: 2013+A2:2017, Annex E.

Class: Category III - Scraped off toy material

	Requirement				(mg/kg)		
Analyte	(mg/kg)				ole ID		
	Category III	A.	B.	C.	D.	E.	F.
Aluminium (AI)	70000	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	1.7.0.45	1.7.0.45	LT 0.45	1.7.0.45	1.7.0.45	1.7.0.45
Chromium VI (Cr VI)	0.2	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15
Copper (Cu)	7700	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	160	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Zinc (Zn)	46000	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Mass of trace am	iount (gram)						
Conclus	ion	PASS	PASS	PASS	PASS	PASS	PASS



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2013+A2:2017)

Test Method : European Standard EN 71 Part 3: 2013+A2:2017, Annex E.

Class: Category III - Scraped off toy material

	Requirement				(mg/kg)		
Analyte	(mg/kg)			Samp	ole ID		
	Category III	G.	H.	l.	J.	K.	L.
Aluminium (AI)	70000	LT 2	LT 2	LT 2	LT 2	4	4
Arsenic (As)	47	LT 2	LT 2				
Boron (B)	15000	LT 2	LT 2				
Barium (Ba)	18750	LT 2	LT 2	LT 2	4	2	LT 2
Cadmium (Cd)	17	LT 2	LT 2				
Cobalt (Co)	130	LT 2	LT 2				
Chromium III (Cr III)	460	LT 0.15	LT 0.15	LT 0.15	LT 0.15	0.62	LT 0.15
Chromium VI (Cr VI)	0.2	L1 0.15	L1 0.15	LI 0.15	L1 0.15	#LT 0.002	L1 0.15
Copper (Cu)	7700	LT 2	LT 2				
Mercury (Hg)	94	LT 2	LT 2				
Manganese (Mn)	15000	LT 2	LT 2	LT 2	5	15	LT 2
Nickel (Ni)	930	LT 2	LT 2				
Lead (Pb)	160	LT 2	LT 2				
Antimony (Sb)	560	LT 2	LT 2				
Selenium (Se)	460	LT 2	LT 2				
Tin (Sn)	180000	LT 2	LT 2				
Organic tin	12	LT 2	LT 2				
Strontium (Sr)	56000	LT 2	LT 2	LT 2	7	2	LT 2
Zinc (Zn)	46000	LT 2	LT 2	520	7	9	160
Mass of trace am	iount (gram)	0.0503					
Conclus	ion	PASS	PASS	PASS	PASS	PASS	PASS



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2013+A2:2017)

Test Method: European Standard EN 71 Part 3: 2013+A2:2017, Annex E.

Class: Category III - Scraped off toy material

	Requirement			Result (mg/kg)
Analyte	(mg/kg)			Sample ID
	Category III	M.	N.	
Aluminium (AI)	70000	3	26	
Arsenic (As)	47	LT 2	LT 2	
Boron (B)	15000	LT 2	LT 2	
Barium (Ba)	18750	LT 2	3	
Cadmium (Cd)	17	LT 2	LT 2	
Cobalt (Co)	130	LT 2	LT 2	
Chromium III (Cr III)	460	LT 0.15	LT 0.15	
Chromium VI (Cr VI)	0.2	L1 0.15	L1 0.15	
Copper (Cu)	7700	LT 2	LT 2	
Mercury (Hg)	94	LT 2	LT 2	
Manganese (Mn)	15000	LT 2	LT 2	
Nickel (Ni)	930	LT 2	LT 2	
Lead (Pb)	160	LT 2	LT 2	
Antimony (Sb)	560	LT 2	LT 2	
Selenium (Se)	460	LT 2	LT 2	
Tin (Sn)	180000	LT 2	LT 2	
Organic tin	12	LT 2	LT 2	
Strontium (Sr)	56000	LT 2	LT 2	
Zinc (Zn)	46000	160	180	
Mass of trace am	nount (gram)			
Conclus	ion	PASS	PASS	

mg/kg = milligrams per kilogram (ppm=parts per million) LT = Less Than

Organic tin = migration of total organic tin is expressed as tributyl tin cation content in mg/kg # = Verified results (see note)

Remark:

- Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.

Note: If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: In house Ion-chromatography analysis
- Organic tin: EN71 part 3:2013+A2:2017, Annex G by Gas Chromatography Mass Spectroscopy analysis.

^{* =} Average of duplicate analysis



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RESULTS:

CADMIUM CONTENT (European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 23)

Cat	egory:				Pla	stics		
Ele	ment:				Cad	lmium		
Tes	st Method			В	S EN 1122:	2001, Metho	od B	
Ма	ximum Allowable Limit:			1	00 mg/kg (0.	01% by wei	ght)	
	Sample	Description		Reading 1	Reading 2	Average	Conclusion	
	Color / Component	Location	Style	R	esult (mg/kg)		
Α.	Deep blue plastic	Tray	В	LT 10	LT 10	LT 10	PASS	
	Grey soft plastic	Wheels	Α					
	Deep grey plastic	Fixer of wheels	Α					
	Bright deep grey plastic	Brake	Α					
B.	White plastic	Back of wheels	Α	LT 10	LT 10	LT 10	PASS	
	Light grey plastic	Wheels	С					
	Light grey soft plastic	Pad of wheels	С					
	Red plastic	Brake	С					

LT = Less than mg/kg = milligrams per kilogram (ppm = parts per million)

= Insufficient sample for duplicate Operator: Tsui Chi Piu, Cyrus

analyses

Cat	egory:			Paints on Pair	nted Article
Ele	ment:			Cadmi	um
Tes	st Method:			In house acid	digestion
Ма	ximum Allowable Limit:			1000 mg/kg (0.1	% by weight)
	Te	st Component		Result	Conclusion
	Colour/Component	Location	Style	(mg/kg)	
(A)	Clear coating	Table	A,C	LT 10	PASS
(B)	Green coating	Table	A,C	LT 10	PASS
(C)	Blue coating	Table	A,C	LT 10	PASS
(D)	Red coating	Table	A,C	LT 10	PASS

LT = Less than

mg/kg = milligrams per kilogram (ppm = parts per million)

^{* =} Average of duplicate analyses



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (AS/NZS 8124 Part 3: 2012 with Amendment No. 1: 2016)

Test Method: Soluble heavy metals content analysis was determined by Inductively Coupled Plasma

Spectrometry.

Sample Identity	Color / Component	Location	Style
Type II: Po	olymeric Materials		
A.	Deep blue plastic	Tray	В
B.	Grey soft plastic	Wheels	A
C.	Deep grey plastic	Fixer of wheels	A
D.	Bright deep grey plastic	Brake	A
E.	White plastic	Back of wheels	А
F.	Light grey plastic	Wheels	С
G.	Light grey soft plastic	Pad of wheels	С
H.	Red plastic	Brake	С
Type I: Co	patings		
1.	Clear coating	Table	A,C
J.	Green coating	Table	A,C
K.	Blue coating	Table	A,C
L.	Red coating	Table	A,C
Type VI: C	Other Materials Whether Mass Coloured	Or Not	•
M.	Bright flesh wood	Table	A,C
N.	Deep flesh wood	Table	A,C



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (AS/NZS 8124 Part 3: 2012 with Amendment No. 1: 2016)

Test Method: Soluble heavy metals content analysis was determined by Inductively Coupled Plasma

Spectrometry.

Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit								
All except								
Type VIII	25	1000	75	60	60	90	60	500
(mg/kg)								
Max. Limit								
Type VIII	25	250	50	25	25	90	60	500
(mg/kg)	20	200	00	20	20	00	00	000
Analytical	60%	30%	30%	30%	50%	30%	60%	60%
Correction	0076	30 /6	30 /6	30 /6	30 /6	30 /6	00 /6	00 /6

Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Sample					(mg/kg)				(g)	
A.	LT 2	LT 2	LT 2	LT 2		PASS				
B.	LT 2	LT 2	LT 2	LT 2		PASS				
C.	LT 2	LT 2	LT 2	LT 2		PASS				
D.	LT 2	LT 2	LT 2	LT 2		PASS				
E.	LT 2	LT 2	LT 2	LT 2		PASS				
F.	LT 2	LT 2	LT 2	LT 2		PASS				
G.	LT 2	LT 2	LT 2	LT 2		PASS				
H.	LT 2	LT 2	LT 2	LT 2		PASS				
I.	LT 2	LT 2	LT 2	LT 2	0.0503	PASS				
J.	LT 2	LT 2	LT 2	LT 2		PASS				
K.	LT 2	LT 2	LT 2	LT 2		PASS				
L.	LT 2	3	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
M.	LT 2	4	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
N.	LT 2	2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS

mg/kg = milligrams per kilogram (ppm=parts per million) CR = adjusted analytical result

LT = Less Than

As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Hg = Mercury, Pb = Lead,

Sb = Antimony, Se = Selenium

^{* =} Average of duplicate analysis



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RESULTS:

PHTHALATES CONTENT IN CHILDREN'S TOYS AND CHILD CARE ARTICLES (Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 108(a) and 108(c), 16 CFR 1307)

Test Method: With reference to U. S. CPSC-CH-C1001-09.3 (April 1, 2010) / CPSC-CH-C1001-09.4 (January 17, 2018).

Sample Identity	Color / Component	Location	Style
A.	Deep blue plastic Grey soft plastic Deep grey plastic	Tray Wheels Fixer of wheels	B A A
B.	Bright deep grey plastic White plastic	Brake Back of wheels	A A
C.	Light grey plastic Light grey soft plastic Red plastic	Wheels Pad of wheels Brake	000
D.	Clear coating	Table	A,C
E.	Green coating	Table	A,C
F.	Blue coating	Table	A,C
G.	Red coating	Table	A,C

Test Parameter:	Listed Phthalates (See Remark)							
Requirement:	E	Each 0.1%						
Sample ID	Detected Analyte	Detected Analyte Concentration (%) Conclu						
A.	ND	ND	PASS					
B.	ND	ND	PASS					
C.	ND	ND	PASS					
D.	ND	ND	PASS					
E.	ND	ND	PASS					
F.	ND	ND	PASS					
G.	ND	ND	PASS					

Results reported in percentage ND = None detected

Detection Limit: Each Phthalate (0.005%)

	LIST OF RESTRICTED PHTHALATES						
Number	Chemical Name	CAS Number					
1.	Butyl benzyl phthalate (BBP)	85-68-7					
2.	Dibutyl phthalate (DBP)	84-74-2					
3.	Di(2-ethylhexyl) phthalate (DEHP)	117-81-7					
4.	Di-iso-nonyl phthalate (DINP)	28553-12-0 & 68515-48-0					
5.	Di-iso-butyl phthalate (DIBP)	84-69-5					
6.	Di-n-pentyl phthalate (DPENP or DnPP)	131-18-0					
7.	Di-n-hexyl phthalate (DHEXP or DnHP)	84-75-3					
8.	Dicyclohexyl phthalate (DCHP)	84-61-7					



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RESULTS:

BBP/DBP/DEHP CONTENTS IN TOYS AND CHILDCARE ARTICLES (European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 51)

With referenced to EN 14372:2004 Section 6.3.2, sample was extracted with organic solvent and Test Method:

then analyzed by Gas Chromatograph Mass Spectrometer

Sample Identity	Test Component	Location	Style
A.	Deep blue plastic	Tray	В
	Grey soft plastic	Wheels	Α
	Deep grey plastic	Fixer of wheels	Α
B.	Bright deep grey plastic	Brake	Α
	White plastic	Back of wheels	A
C.	Light grey plastic	Wheels	С
	Light grey soft plastic	Pad of wheels	С
	Red plastic	Brake	С
D.	Clear coating	Table	A,C
E.	Green coating	Table	A,C
F.	Blue coating	Table	A,C
G.	Red coating	Table	A,C

Test Parameter:	BBP	DBP	DEHP	Sum of three phthalates	
Limit (%):	0.1	0.1	0.1	0.1	
Sample		Resu	It (%)		Conclusion
A.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	PASS
B.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	PASS
C.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	PASS
D.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	PASS
E.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	PASS
F.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	PASS
G.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	PASS

Detection Limit:

BBP Results reported in percentage

= Butyl benzyl phthalate (0.005%) = Dibutyl phthalate (0.005%) DBP LT = Less than DEHP = Di(2-ethylhexyl) phthalate (0.005%) ND = None detected



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RESULTS:

DNOP/DINP/DIDP CONTENTS IN TOYS AND CHILDCARE ARTICLES WHICH CAN BE PLACED IN MOUTH BY THE CHILDREN (European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 52)

Test Method: With referenced to EN 14372:2004 Section 6.3.2, sample was extracted with organic solvent and

then analyzed by Gas Chromatograph Mass Spectrometer

Sample Identity	Test Component	Location	Style
A.	Deep blue plastic Grey soft plastic	Tray Wheels	B A
	Deep grey plastic	Fixer of wheels	Α
B.	Bright deep grey plastic White plastic	Brake Back of wheels	A A
C.	Light grey plastic Light grey soft plastic Red plastic	Wheels Pad of wheels Brake	000
D.	Clear coating	Table	A,C
E.	Green coating	Table	A,C
F.	Blue coating	Table	A,C
G.	Red coating	Table	A,C

Test Parameter:	DNOP	DINP	DIDP	Sum of three phthalates	
Limit (%):	0.1	0.1	0.1	0.1	
Sample		Resu	It (%)		Conclusion
A.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	PASS
B.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	PASS
C.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	PASS
D.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	PASS
E.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	PASS
F.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	PASS
G.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	PASS

Detection Limit:

DNOP = Di-n-octyl phthalate (0.005%) Results reported in percentage

DINP = Di-iso-nonyl phthalate (0.005%) LT = Less than
DIDP = Di-iso-decyl phthalate (0.005%) ND = None detected



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RESULTS:

DIBP CONTENT IN TOYS (2009/48/EC and its amendments, Annex II, Part III, Point 3)

Test	t Parameter:	DIBP			
Limi	t (%):	0.3			
	Color / Component	Location	Style	Result (%)	Conclusion
A.	Deep blue plastic Grey soft plastic Deep grey plastic	Tray Wheels Fixer of wheels	B A A	LT 0.005	PASS
B.	Bright deep grey plastic White plastic	Brake Back of wheels	A A	LT 0.005	PASS
C.	Light grey plastic Light grey soft plastic Red plastic	Wheels Pad of wheels Brake	C C C	LT 0.005	PASS
D.	Clear coating	Table	A,C	LT 0.005	PASS
E.	Green coating	Table	A,C	LT 0.005	PASS
F.	Blue coating	Table	A,C	LT 0.005	PASS
G.	Red coating	Table	A,C	LT 0.005	PASS

Remark:

DIBP (CAS No: 84-69-5) = Diisobutyl phthalate

Results reported in percentage ND = None detected

Detection Limit: Each Phthalate (0.005%)



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RESULTS:

CLIENT'S 17 PHTHALATES CONTENT SPECIFICATION

BBP/DBP/DEHP/DNOP/DINP/DIDP Content

	Color / Component	Location	Style	
	Composite of			
A.	Deep blue plastic	Tray	В	
	Grey soft plastic	Wheels	Α	
	Deep grey plastic	Fixer of wheels	A	
В.	Bright deep grey plastic	Brake	A	
	White plastic	Back of wheels	A	
C.	Light grey plastic	Wheels	С	
٠.	Light grey soft plastic	Pad of wheels	С	
	Red plastic	Brake	С	
D.	Clear coating	Table	A,C	
E.	Green coating	Table	A,C	
F.	Blue coating	Table	A,C	
G.	Red coating	Table	A,C	

Test Parameter	BBP	DBP	DEHP	DNOP	DINP	DIDP	
Limit (%)	0.1	0.1	0.1	0.1	0.1	0.1	
Sample			Resu	lt (%)			Conclusion
А	LT 0.005	PASS					
В	LT 0.005	PASS					
С	LT 0.005	PASS					
D	LT 0.005	PASS					
E	LT 0.005	PASS					
F	LT 0.005	PASS					
G	LT 0.005	PASS					

Detection Limit: Results reported in percentage

DIDP = Di-iso-decyl phthalate (0.005%) 26761-40-0 / 68515-49-1
BBP = Butyl benzyl phthalate (0.005%) 85-68-7
DBP = Dibutyl phthalate (0.005%) 84-74-2

DEHP = Di(2-ethylhexyl) phthalate (0.005%) 117-81-7



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RESULTS:

CLIENT'S 17 PHTHALATES CONTENT SPECIFICATION

• EC No. 201-559-5 / DiBP / DHNUP / DIHP / DMEP / DIPP / DPP / DPP / DPP / DHP / 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear Content

Test Parameter	EC No. 201- 559-5	DiBP	DHNUP	DIHP	DMEP	DIPP	
Limit (%)	0.1	0.1	0.1	0.1	0.1	0.1	
Sample							Conclusion
А	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS
В	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS
С	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS
D	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS
Е	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS
F	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS
G	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS



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RESULTS:

CLIENT'S 17 PHTHALATES CONTENT SPECIFICATION

EC No. 201-559-5 / DiBP / DHNUP / DIHP / DMEP / DIPP / DPP / DPP / DIPP /

est Parameter	DnPP	DPP	PiPP	DHP	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	
Limit (%)	0.1	0.1	0.1	0.1	0.1	
Sample						Conclusion
А	LT 0.005	PASS				
В	LT 0.005	PASS				
С	LT 0.005	PASS				
D	LT 0.005	PASS				
Е	LT 0.005	PASS				
F	LT 0.005	PASS				
G	LT 0.005	PASS				

Results reported in percentage LT = Less than ND = None detected

Detection Limit:

DiBP = Diisobutylphthalate 84-69-5

DHNUP = 1,2-Benzenedicarboxylic acid,di-C7,11-branched and linear alkyl

esters 68515-42-4

DIHP = 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,

C7-rich 71888-89-6

DMEP = Dimethoxyethyl phthalate 117-82-8
DIPP = Diisopentylphthalate 605-50-5
DnPP = Dipentylphthalate 131-18-0

DPP = 1,2-benzenedicarboxylic acid dipentylester, branched and linear

84777-06-0

PiPP = n-Pentyl-Isopentylphthalate 776297-69-9

DHP = Dihexylphthalate 84-75-3

1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 68515-50-

EC No. 201-559-5 = 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate 68515-51-5 /68648-93-1



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RESULTS:





