

CONSUMER PRODUCTS SERVICES DIVISION

CARPENTERS MANUFACTORY LIMITED

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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: A.) A - 800H X 880L MOBILE INCLINED SHELVING UNIT (TRAYS NOT INCLUDED)

B.) B - 12 PIECE CLEAR ACRYLIC STORAGE TRAY SET (315 X 205 X 140MM)

C.) C - STEM WALL® 200L CLEAR STORAGE TRAY 2 PIÈCE SET D.) D - STEM WALL® 400L CLEAR STORAGE TRAY 2 PIECE SET

E.) E - STEM WALL 6 PIECE TRANSPARENT CARD HOLDER (HOLDS 98MM (I) X

122MM (H) CARDS)

F.) F - STEM WALL 6 PIECE TRANSPARENT WALL HOOK (HOLDS UP TO 15KGS)

G.) G - STEM WALL FLEXIBLE MOUNTING SYSTEM ONE UNIT PANEL

H.) H-WALL ELEMENT STORAGE CABINET

Sample Size: Vendor: CARPENTERS MANUFACTORY

LIMITED 东莞天志木制品有限公司

ME13095, ME14016, Manufacturer: N/A Style No(s):

ME16553, ME16560, ME14672, ME14689, ME13392, ME06639

SKN/SKU No.: N/A Buyer: N/A Labeled Age Grade: PO No.: 3+ N/A Appropriate Age Grade: **NOT REQUESTED** Ref #: N/A **CHINA** Country of Origin:

Client Specified Age

Grade:

Tested Age Grade: **OVER 3 YEARS OF AGE** Assortment No.: N/A UPC Code: 6955920013095, 6955920016553, Country of Destination: **GLOBAL**

6955920016560, 6955920014672, 6955920014689, 6955920013392,

6955920006639



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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).
- 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".
- 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 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 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 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 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 total lead content requirements of the Canada Consumer Product Safety Act, Consumer Products Containing Lead Regulations SOR/2018-83.
- The mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys", EN71: Part 1:2014+A1:2018, clauses 1-7.
- The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2011+ A1: 2014.
- Labeling requirements of "CE marking, manufacturer/ Importer name and address, and product identification" under "Directive 2009/48/EC Safety of Toy".
- The migration of certain elements requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2013+A3:2018.
- The migration of certain elements requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2019.



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EXECUTIVE SUMMARY:

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

- 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 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 flammability requirements of the AS/NZS Standard, "Safety of toys", AS/NZS 8124: Part 2: 2016.
- 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 labeling requirements of the tested subclauses of the Australian/New Zealand Standard, "Safety of toys", AS/NZS ISO 8124: Part 1: 2019.
- The mechanical and physical properties requirements of the tested subclauses of the Australian/New Zealand Standard. "Safety of toys", AS/NZS ISO 8124: Part 1: 2019.
- The BBP, DBP DEHP and DIBP 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 (amended up to EU No. 2018/2005).
- 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 17 phthalates content requirements of the client's specifications.
- 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 formaldehyde release requirement in accessible resin-bonded wood components of the European Standard, "Safety of Toys: Organic Chemical Compounds - Requirement", EN 71: Part 9: 2005, and Amendment A1: 2007, when tested according to the method BS EN 717-3.

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: At the request of the client, the sample(s) was evaluated for use by children 3+.



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(*) EXECUTIVE SUMMARY:

Note: According to the associated documents of Consumer Product Safety Improvement Act (CPSIA) of 2008, exemptions were granted to certain materials or products, such as natural materials / paper and similar materials / CMYK process printing inks / metal & alloys / electronics devices components / ordinary books / dyed & undyed textiles. Therefore, the lead content analysis of some components was not conducted.

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: Exemptions were granted to certain materials or products, such as natural materials / paper and similar materials / CMYK process printing inks / metal & alloys / dyed & undyed textiles. Therefore, the lead content analysis of some components was not conducted.

Note: According to ASTM F963-17, "Standard consumer safety specification on toy safety", Annex A11.10.1.5, exemption were granted to paper and paperboard. Therefore, the heavy metals content in substrate analysis of some components of ASTM F963-17, Section 4.3.5.2(2)(b) was not conducted.

Note: The received sample(s) contained accessible component(s) of less than 10 milligrams by weight on one single sample, therefore such component(s) was not subject to migration of certain elements of European Standard, "Safety of Toys", EN 71 Part 3: 2013 + A3:2018, as specified in Clause 7.1 - Selection of test portions.

Note: The received sample(s) contained accessible component(s) of less than 10 milligrams by weight on one single sample, therefore such component(s) was not subject to migration of certain elements of European Standard, "Safety of Toys", EN 71 Part 3: 2019, as specified in Clause 7.1 - Selection of test portions.

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 (2017) has/have not been conducted.

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 Directive 2009/48/EC Formamide has/have not been conducted.

Note: This report is amendment of and supersedes the previous (8520)020-0193 dated February 27, 2020.

BUREAU VERITAS SHENZHEN CO., LTD.

Hon Yin Kan Manager

Toys And Juvenile Products Department

HK/su



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RESULTS:

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	s in accordance with section 8.6 through 8	.16, whichever is applicable
Test	Test Parameters	Standard Reference
Impact Test	4 x 3 ft	1500.53(b)
Tip Over Test	3 times	1500.53(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:

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	М
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearances and Accessibility of Mechanisms	М
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	N/A
	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:

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

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.



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RESULTS:

TOTAL LEAD CONTENT IN SURFACE COATING BY COMPOSITE TESTING ("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

Eler	ment:			Lea	ad	
Req	uirement: Maximum allowable li	mit:		90 m	g/kg	
	Sample [Description		Result (mg/kg)	Conclusion
	Color / Component	Location	Style	Overall	Potential	
(A)	Red coating	Knob	G	LT 10	-	PASS
(B)	Bright red coating	Bright red paint (A1Y)	Н	LT 10	-	PASS
(C)	Dark green coating	Dark green paint (A5Y)	Н	LT 10	-	PASS
(D)	Dark blue coating	Dark blue paint (A7Y)	Н	LT 10	-	PASS
(E)	Clear lacquer	Clear lacquer paint (A21Y)	A,G,H	LT 10	-	PASS

LT = Less Than

mg/kg = milligrams per kilogram (ppm = parts per million) Potential = Estimated lead content per component is based on calculation by component individual weight

^{* =} Average of duplicate analyses



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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

Ana	lyte			Lead (Pb)	
	Samp	e Description		Result	Conclusion
	Color / Component	Location	Style	(mg/kg)	
(A)	Light grey plastic	Wheels	A,H	LT 10	PASS
	Deep grey plastic	Wheels	A,H		
	White plastic	Wheels	A,H		
(B)	Clear plastic	Tray	В	LT 10	PASS
	Soft clear plastic	Tray	C,D		
(C)	Translucent plastic	Card holder	Е	LT 10	PASS
		Wall hook	F		
	Flesh plastic	Plastic screw	C-G		
(D)	Silvery metal	Big screw	A,G,H	LT 10	PASS
(E)	Soft silvery metal	Screw on end of knob	G	LT 10	PASS
(F)	Sharp silvery metal	Fixing plate of wheels	A,H	LT 10	PASS
(G)	Matt silvery metal	Axis of wheels	A,H	LT 10	PASS
(H)	Light silvery metal	Mid screw	Α	LT 10	PASS
(I)	Dull silvery metal	Fixture	Α	23	PASS
(J)	Deep silvery metal	Long hexgon screw	Α	LT 10	PASS
(K)	Flat silvery metal	Small round screw	A,H	LT 10	PASS
(L)	Dark silvery metal	Round screw	A,H	LT 10	PASS
(M)	Soft matt silvery metal	Nut	Н	28	PASS
(N)	Dull soft silvery metal	Big hexgon screw	Н	LT 10	PASS
(O)	Bright light flesh / bright flesh wood	Wooden board	A,G,H	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.	Red coating	Knob	G
B.	Bright red coating	Bright red paint (A1Y)	Н
C.	Dark green coating	Dark green paint (A5Y)	Н
D.	Dark blue coating	Dark blue paint (A7Y)	Н
E.	Clear lacquer	Clear lacquer paint (A21Y)	A,G,H

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	0.0139	PASS
B.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0856	PASS
C.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0666	PASS
D.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0580	PASS
E.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0806	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		
А	Light grey plastic	Wheels	A,H
В	Deep grey plastic	Wheels	A,H
С	White plastic	Wheels	A,H
D	Clear plastic	Tray	В
Е	Soft clear plastic	Tray	C,D
F	Translucent plastic	Card holder Wall hook	E F
G	Flesh plastic	Plastic screw	C-G
Н	Light brown wood	Wooden board	G
I	Bright light flesh / bright flesh wood	Wooden board	A,G,H

Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit Type I (mg/kg)	25	1000	75	60	60	90	60	500
Max. Limit 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)				(g)	
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
E	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



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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	Ва	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit Type I (mg/kg)	25	1000	75	60	60	90	60	500
Max. Limit 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)							(g)	
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	10	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:

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.	Red coating	Knob	G
B.	Light grey plastic	Wheels	A,H
	Deep grey plastic	Wheels	A,H
	White plastic	Wheels	A,H
C.	Clear plastic	Tray	В
	Soft clear plastic	Tray	C,D
D.	Translucent plastic	Card holder Wall hook	E F
	Flesh plastic	Plastic screw	C-G
E.	Bright red coating	Bright red paint (A1Y)	Н
F.	Dark green coating	Dark green paint (A5Y)	Н
G.	Dark blue coating	Dark blue paint (A7Y)	Н
H.	Clear lacquer	Clear lacquer paint (A21Y)	A,G,H

Test Parameter:	Listed Phthalates (See Remark)				
Requirement:		Each 0.1%			
Sample ID	Detected Analyte	Concentration (%)	Conclusion		
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		
H.	ND	ND	PASS		

Results reported in percentage ND = None detected

Detection Limit: Each Phthalate (0.005%)



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RESULTS:

	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:

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.

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

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, TOYS REGULATIONS, SOR/2011-17

Section	Parameter / Requirement	Result
Mechanical	Hazards	
4	Flexible film bag used for package	M
7	Small Toys and Detachable component	NA
8	Metal edge	M
9	Wires frames	NA
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	M
19	Auditory hazards	NA
Specific Pro	ducts - 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



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RESULTS:

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

Section	Parameter / Requirement	Result
Specific Pro	ducts	•
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
43	Magnetic force	NA
44	Educational experimental kit - Labeling	NA

CANADA CONSUMER PRODUCT SAFETY ACT, SCHEDULE 2

Section	Parameter / Requirement	Result				
Mechanical H	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

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:

TOTAL LEAD CONTENT (Canada Consumer Product Safety Act – Consumer Products Containing Lead Regulations SOR/2018-83)

Test Method: Health Canada, Product Safety Laboratory, Reference Manual, Book 5 - Laboratory Policies and Procedures – Part B: Test Method Section, Method C-02.2:2017, C-02.3:2017 or C-02.4-2017

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

Anal	yte	Lead (Pb)			
		Description		Result	Conclusion
	Color / Component	Location	Style	(mg/kg)	
(A)	Red coating	Knob	G	LT 10	PASS
(B)	Light grey plastic	Wheels	A,H	LT 10	PASS
	Deep grey plastic	Wheels	A,H		
	White plastic	Wheels	A,H		
(C)	Clear plastic	Tray	В	LT 10	PASS
	Soft clear plastic	Tray	C,D		
(D)	Translucent plastic	Card holder Wall hook	E	LT 10	PASS
	Flesh plastic	Plastic screw	C-G		
(E)	Silvery metal	Big screw	A,G,H	LT 10	PASS
(F)	Soft silvery metal	Screw on end of knob	G	LT 10	PASS
(G)	Sharp silvery metal	Fixing plate of wheels	A,H	LT 10	PASS
(H)	Matt silvery metal	Axis of wheels	A,H	LT 10	PASS
(I)	Light silvery metal	Mid screw	Α	LT 10	PASS
(J)	Dull silvery metal	Fixture	Α	23	PASS
(K)	Deep silvery metal	Long hexgon screw	Α	LT 10	PASS
(L)	Flat silvery metal	Small round screw	A,H	LT 10	PASS
(M)	Dark silvery metal	Round screw	A,H	LT 10	PASS
(N)	Soft matt silvery metal	Nut	Н	28	PASS
(O)	Dull soft silvery metal	Big hexgon screw	Н	LT 10	PASS
(P)	Bright red coating	Bright red paint (A1Y)	Н	LT 10	PASS
(Q)	Dark green coating	Dark green paint (A5Y)	Н	LT 10	PASS
(R)	Dark blue coating	Dark blue paint (A7Y)	Н	LT 10	PASS
(S)	Clear lacquer	Clear lacquer paint (A21Y)	A,G,H	LT 10	PASS
(T)	Bright light flesh / bright flesh wood	Wooden board	A,G,H	LT 10	PASS

LT = Less Than

^{* =} Average of duplicate analyses



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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)	Red coating	Knob	G
(B)	Bright red coating	Bright red paint (A1Y)	Н
(C)	Dark green coating	Dark green paint (A5Y)	Н
(D)	Dark blue coating	Dark blue paint (A7Y)	Н
(E)	Clear lacquer	Clear lacquer paint (A21Y)	A,G,H

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

Analy	te	As	Ва	Cd	Hg	Pb	Sb	Se	
	Method			Re	esult (mg/k	g)			Conclusion
(A)	(T)	LT 10	360	LT 10	ND	LT 10	LT 10	LT 10	PASS
	(S)	-	-	-	-	-	-	-	17.00
(B)	(T)	LT 10	LT 10	LT 10	ND	LT 10	LT 10	LT 10	PASS
	(S)	-	-	-	-	-	-	-	1 700
(C)	(T)	LT 10	LT 10	LT 10	ND	LT 10	LT 10	LT 10	PASS
	(S)	-	-	-	-	-	-	-	FAGG
(D)	(T)	LT 10	LT 10	LT 10	ND	LT 10	LT 10	LT 10	PASS
	(S)	-	-	-	-	-	-	-	FAGG
(E)	(T)	LT 10	12	LT 10	ND	LT 10	LT 10	LT 10	PASS
	(S)	-	-	-	-	-	-	-	FASS

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

LT = Less Than

*= Average of duplicate analysis

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

ND = Not detected (Detection Limit = 10 mg/kg)

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

(T) = Total Analysis (With referenced to ASTM F963-17 Sec. 8.3)

Se = Selenium

(S) = Soluble analysis (Canada Product Safety Manual Book 5, Part-B, C-03 (2014))



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RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the EN71: Part 1: 2014 +A1:2018, 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					
	T () BOEO	The sample(s) DOES NOT MEET the requirement of this Subclause						
NM				ubclause				
M		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							
F	Finnish language	I	Italian language	SZ	Swiss language			
FR	French language	N	Norwegian language					



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RESULTS:

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

Subclause	Requirement	Result
4.1	Material cleanliness	М
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	М
4.8 & 7.6	Points and metallic wires	М
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	М
4.17.2	All projectiles	NA
4.17.3 & 7.7	Projectile toys with stored energy	NA
4.17.4 & 7.26	Certain projectiles toys without stored energy	NA



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RESULTS:

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

Subclause	Requirement	Result
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
4.26	Toy Disguise Costumes	NA
4.27.1	Flying toys – General	NA
4.27.2 & 7.25.1	Rotors and propellers on flying toys	NA
4.27.3 & 7.25.2	Rotors and propellers on remote controlled flying toys	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
5.4.2	Cords and chains in toys intended for children under 18 months	NA
5.4.3 & 7.22	Cords and chains in toys intended for children of 18 months or over but under 36 months	NA
5.4.4	Fixed loops, tangled loops and nooses	NA
5.4.5	Cords and chains on pull along toys	NA
5.4.6 & 7.21	Electrical cables	NA
5.4.7	Cross-sectional dimension of certain cords	NA
5.4.8	Self-retracting cords	NA
5.4.9 & 7.11 & 7.23	Toys attached to or intended to be strung across a cradle, cot or perambulator	NA
5.5 & 7.12	Liquid filled toys	NA



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RESULTS:

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

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
5.15 & 7.24	Sledges with cords for pulling	NA
6	Packaging	M
	WARNINGS, INSTRUCTIONS FOR USE	
7.1	General	M
7.2	Toys not intended for children under 36 months	M
7.5	Functional toys	NA

2009/48/EC GENERAL LABELING REQUIREMENT

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

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



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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:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2013+A3:2018)

Test Method : European Standard EN 71 Part 3: 2013+A3:2018, Annex E.

Class: Category III - Scraped off toy material

Sample Identity	Color	Location	Style
A.	Red coating	Knob	G
B.	Light grey plastic	Wheels	A,H
C.	Deep grey plastic	Wheels	A,H
D.	White plastic	Wheels	A,H
E.	Clear plastic	Tray	В
F.	Soft clear plastic	Tray	C,D
G.	Translucent plastic	Card holder Wall hook	E F
H.	Flesh plastic	Plastic screw	C-G
I.	Bright light flesh / bright flesh wood	Wooden board	A,G,H
J.	Clear lacquer	Clear lacquer paint (A21Y)	A,G,H
K.	Light brown wood	Wooden board	G



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2013+A3:2018)

Test Method: European Standard EN 71 Part 3: 2013+A3:2018, Annex E.

Class: Category III - Scraped off toy material

	Requirement			Result	(mg/kg)		
Analyte	(mg/kg)				ole ID		
·	Category III	A.	B.	C.	D.	E.	F.
Aluminium (Al)	70000	5	4	LT 2	LT 2	LT 2	5
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		0.18	0.070			0.076
Chromium VI (Cr VI)	0.2	LT 0.050	#LT	#LT	LT 0.050	LT 0.050	#LT
Chromium vi (Cr vi)	0.2		0.0020	0.0020			0.0020
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	2	LT 2	LT 2	LT 2	LT 2	2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	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	2	LT 2	LT 2	LT 2	LT 2	77
Mass of trace am	ount (gram)	0.0139					
Conclus		Pass	Pass	Pass	Pass	Pass	Pass



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2013+A3:2018)

Test Method: European Standard EN 71 Part 3: 2013+A3:2018, Annex E.

Class: Category III - Scraped off toy material

	Requirement			Result	(mg/kg)		
Analyte	(mg/kg)			Sam	ole ID		
·	Category III	G.	H.	I.	J.	K.	
Aluminium (Al)	70000	LT 2	3	LT 2	LT 2	LT 2	
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2	
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2	
Barium (Ba)	18750	LT 2	LT 2	4	LT 2	LT 2	
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2	
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2	
Chromium III (Cr III)	460		0.051	0.058			
Chromium VI (Cr VI)	0.2	LT 0.050	#LT	#LT	LT 0.050	LT 0.050	
Chilomium VI (Ci VI)			0.0020	0.0020			
Copper (Cu)	7700	LT 2	LT 2	LT 2	LT 2	LT 2	
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2	
Manganese (Mn)	15000	LT 2	LT 2	20	LT 2	LT 2	
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2	
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2	
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2	
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2	
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2	
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2	
Strontium (Sr)	56000	LT 2	LT 2	2	LT 2	LT 2	
Zinc (Zn)	46000	6	3	34	77	LT 2	
Mass of trace am	nount (gram)				0.0806		
Conclus	ion	Pass	Pass	Pass	Pass	Pass	

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

LT = Less Than

* = Average of duplicate analysis

FR = Failed Result

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+A3:2018, Annex G by Gas Chromatography Mass Spectroscopy analysis.



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2019)

Test Method: European Standard EN 71 Part 3: 2019, Section 9.

Class: Category III - Scraped off toy material

Sample Identity	Color	Location	Style
A.	Red coating	Knob	G
B.	Light grey plastic	Wheels	A,H
C.	Deep grey plastic	Wheels	A,H
D.	White plastic	Wheels	A,H
E.	Clear plastic	Tray	В
F.	Soft clear plastic	Tray	C,D
G.	Translucent plastic	Card holder Wall hook	E F
H.	Flesh plastic	Plastic screw	C-G
I.	Bright light flesh / bright flesh wood	Wooden board	A,G,H
J.	Clear lacquer	Clear lacquer paint (A21Y)	A,G,H
K.	Light brown wood	Wooden board	G



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2019)

Test Method: European Standard EN 71 Part 3: 2019, Section 9.

Class: Category III - Scraped off toy material

	Requirement				(mg/kg)		
Analyte	(mg/kg)			Sam	ole ID		
	Category III	A.	B.	C.	D.	E.	F.
Aluminium (Al)	70000	5	4	LT 2	LT 2	LT 2	5
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		0.18	0.070			0.076
Chromium VI (Cr VI)	0.053	LT 0.050	#LT	#LT	LT 0.050	LT 0.050	#LT
Chronillani VI (Ci VI)	0.055		0.0020	0.0020			0.0020
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	2	LT 2	LT 2	LT 2	LT 2	2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	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	2	LT 2	LT 2	LT 2	LT 2	77
Mass of trace am	nount (gram)	0.0139					
Conclus		Pass	Pass	Pass	Pass	Pass	Pass



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2019)

Test Method: European Standard EN 71 Part 3: 2019, Section 9.

Class: Category III - Scraped off toy material

	Requirement			Result	(mg/kg)		
Analyte	(mg/kg)			Sam	ole ID		
·	Category III	G.	H.	I.	J.	K.	
Aluminium (Al)	70000	LT 2	3	LT 2	LT 2	LT 2	
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2	
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2	
Barium (Ba)	18750	LT 2	LT 2	4	LT 2	LT 2	
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2	
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2	
Chromium III (Cr III)	460		0.051	0.058			
Chromium VI (Cr VI)	0.053	LT 0.050	#LT	#LT	LT 0.050	LT 0.050	
Chilomium VI (Ci VI)			0.0020	0.0020			
Copper (Cu)	7700	LT 2	LT 2	LT 2	LT 2	LT 2	
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2	
Manganese (Mn)	15000	LT 2	LT 2	20	LT 2	LT 2	
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2	
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2	
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2	
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2	
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2	
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2	
Strontium (Sr)	56000	LT 2	LT 2	2	LT 2	LT 2	
Zinc (Zn)	46000	6	3	34	77	LT 2	
Mass of trace am	nount (gram)				0.0806		
Conclus	ion	Pass	Pass	Pass	Pass	Pass	

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

LT = Less Than

* = Average of duplicate analysis

FR = Failed Result

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: EN71 part 3:2019, Annex F
- Organic tin: EN71 part 3:2019, Annex G by Gas Chromatography Mass Spectroscopy analysis.



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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)

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.	Red coating	Knob	G
B.	Light grey plastic	Wheels	A,H
	Deep grey plastic	Wheels	A,H
	White plastic	Wheels	A,H
C.	Clear plastic	Tray	В
	Soft clear plastic	Tray	C,D
D.	Translucent plastic	Card holder Wall hook	E F
	Flesh plastic	Plastic screw	C-G
E.	Bright red coating	Bright red paint (A1Y)	Н
F.	Dark green coating	Dark green paint (A5Y)	Н
G.	Dark blue coating	Dark blue paint (A7Y)	Н
H.	Clear lacquer	Clear lacquer paint (A21Y)	A,G,H

Test Parameter:	BBP	DBP	DEHP	Sum of three phthalates	
Limit (%):	0.1	0.1	0.1	0.1	
Sample		Re	esult (%)		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
H.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	PASS

Detection Limit:

 $BBP = Butyl\ benzyl\ phthalate\ (0.005\%)$ Results reported in percentage $DBP = Dibutyl\ phthalate\ (0.005\%)$ $LT = Less\ than$ $DEHP = Di(2-ethylhexyl)\ phthalate\ (0.005\%)$ $ND = None\ detected$



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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.	Red coating	Knob	G
B.	Light grey plastic	Wheels	A,H
	Deep grey plastic	Wheels	A,H
	White plastic	Wheels	A,H
C.	Clear plastic	Tray	В
	Soft clear plastic	Tray	C,D
D.	Translucent plastic	Card holder Wall hook	E F
	Flesh plastic	Plastic screw	C-G
E.	Bright red coating	Bright red paint (A1Y)	Н
F.	Dark green coating	Dark green paint (A5Y)	Н
G.	Dark blue coating	Dark blue paint (A7Y)	Н
H.	Clear lacquer	Clear lacquer paint (A21Y)	A,G,H

Test Parameter:	DNOP	DINP	DIDP	Sum of three phthalates	
Limit (%):	0.1	0.1	0.1	0.1	
Sample		Res	sult (%)		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
H.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	PASS

Detection Limit:

DNOP = Di-n-octyl phthalate (0.005%)
DINP = Di-iso-nonyl phthalate (0.005%)
DIDP = Di-iso-decyl phthalate (0.005%)

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



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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 Standard, "Safety of toys", AS/NZS 8124: Part 1: 2019

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:

MECHANICAL & PHYSICAL PROPERTIES - (AS/NZS ISO 8124.1:2019)

Subclause	Requirement	Result
4.1	Normal use	М
4.2	Reasonably foreseeable abuse	М
4.3	Material	М
4.4	Small parts	NA
4.5	Shape, size and strength of certain toys	NA
4.6	Edges	М
4.7	Points	М
4.8	Projections	NA
4.9	Metal wires and rods	NA
4.10	Plastic film or plastic bags in packaging and in toys	М
4.11	Cords	NA
4.12	Folding mechanisms	NA
4.13	Holes, clearances and accessibility of mechanisms	М
4.14	Springs	NA
4.15	Stability and overload requirements	М
4.16	Enclosures	NA
4.17	Simulated protective equipment	NA
4.18	Projectile toys	NA
4.19	Rotors and propellers	NA
4.20	Aquatic toys	NA
4.21	Braking	NA
4.22	Toy bicycles	NA
4.23	Speed limitation of electrically driven ride-on toys	NA
4.24	Toys containing a heat source	NA
4.25	Liquid-filled toys	NA
4.26	Mouth-actuated toys	NA
4.27	Toy roller skates, toy inline skates and toy skateboards	NA
4.28	Percussion caps specifically designed for use in toys	NA
4.29	Acoustic requirement	NA
4.30	Toy scooters	NA
4.31	Magnets and magnetic components	NA
4.32	Yo-yo balls	NA
4.33	Straps intended to be worn fully or partially around the neck	NA
4.34	Sledges and toboggans with cords for pulling	NA
4.35	Jaw entrapment in handles and steering wheels	NA



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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	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 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 Present



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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 I: Coati	ngs		
A.	Red coating	Knob	G
Type II: Poly	meric Materials		•
B.	Light grey plastic	Wheels	A,H
C.	Deep grey plastic	Wheels	A,H
D.	White plastic	Wheels	A,H
E.	Clear plastic	Tray	В
F.	Soft clear plastic	Tray	C,D
G.	Translucent plastic	Card holder Wall hook	E F
H.	Flesh plastic	Plastic screw	C-G
Type I: Coati	ngs		•
l.	Bright red coating	Bright red paint (A1Y)	Н
J.	Dark green coating	Dark green paint (A5Y)	Н
K.	Dark blue coating	Dark blue paint (A7Y)	Н
L.	Clear lacquer	Clear lacquer paint (A21Y)	A,G,H
Type VI: Oth	er Materials Whether Mass Coloured O	r Not	•
M.	Light brown wood	Wooden board	G
N.	Bright light flesh / bright flesh wood	Wooden board	A,G,H



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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	0.5	050		0.5	0.5	00	00	500
(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)				(g)	
A.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0139	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	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
E.	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
H.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
I.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0856	PASS
J.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0666	PASS
K.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0580	PASS
L.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0806	PASS
M.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
N.	LT 2	10	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:

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

Cate	gory:		Plastics				
Elem	ent:				Cadm	ium	
Test	Method				BS EN 1122: 20	01, Method	В
Maxi	mum Allowable Limit:				100 mg/kg (0.0°	1% by weigh	t)
	Sample D	escription		Reading 1	Reading 2	Average	Conclusion
C	Color / Component	Location	Style	Result (mg/kg)			
(A)	Light grey plastic	Wheels	A,H	LT 10	LT 10	LT 10	PASS
	Deep grey plastic	Wheels	A,H				
	White plastic	Wheels	A,H				
	Clear plastic	Tray	В				
(B)	Soft clear plastic	Tray	C,D	LT 10	LT 10	LT 10	PASS
	Translucent plastic	Card holder Wall hook	E F				
	Flesh plastic	Plastic screw	C-G				

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

= Insufficient sample for duplicate Operator: Zhang Shao Zheng, Ryan

analyses

Cate	gory:	Paints on Painted Article				
Elem	ent:			Cadmium		
Test	Method:			In house acid di	gestion	
Maxii	mum Allowable Limit:			1000 mg/kg (0.1%	by weight)	
	Test Co	Result	Conclusion			
	Colour/Component	(mg/kg)				
Α	Red coating	Knob	G	LT 10	PASS	
В	Bright red coating	Bright red paint (A1Y)	Н	LT 10	PASS	
C Dark green coating Dark green paint (A5Y)			Н	LT 10	PASS	
D	Dark blue coating	Н	LT 10	PASS		
D Dark blue coating Dark blue paint (A7Y) H Clear lacquer Clear lacquer paint (A21Y) A,G,H				LT 10	PASS	

LT = Less than

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

^{* =} Average of duplicate analyses



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RESULTS:

BBP/DBP/DEHP/DIBP CONTENTS (European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 51 (amended up to EU No. 2018/2005))

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.	Red coating	Knob	G
B.	Light grey plastic	Wheels	A,H
	Deep grey plastic	Wheels	A,H
	White plastic	Wheels	A,H
C.	Clear plastic	Tray	В
	Soft clear plastic	Tray	C,D
D.	Translucent plastic	Card holder Wall hook	E F
	Flesh plastic	Plastic screw	C-G

Test Parameter:	BBP	DBP	DEHP	DIBP	Sum of four phthalates	
Limit (%):	0.1	0.1	0.1	0.1	0.1	
Sample		Result (%)				
A.	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.020	PASS
B.	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.020	PASS
C.	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.020	PASS
D.	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.020	PASS

Detection Limit:

BBP = Butyl benzyl phthalate (0.005%) Results reported in percentage

DBP = Dibutyl phthalate (0.005%)

DEHP = Di(2-ethylhexyl) phthalate (0.005%)

DIBP = Diisobutyl phthalate (0.005%)

ND = None detected

DIBP = Diisobutyl phthalate (0.005%)



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RESULTS:

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

Test	Parameter:	DIBP			
Limi	t (%):	0.3			
	Color / Component	Location	Style	Result (%)	Conclusion
A.	A. Bright red coating Bright red paint (A1Y) H				PASS
B.	Dark green coating	Dark green paint (A5Y)	Н	LT 0.005	PASS
C.	Dark blue coating	Dark blue paint (A7Y)	Н	LT 0.005	PASS
D.	Clear lacquer	Clear lacquer paint (A21Y)	A,G,H	LT 0.005	PASS

Remark:

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

Results reported in percentage

ND = None detected

Potentian Limit: Each Phthalata (I

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.	Red coating	Knob	G
B.	Light grey plastic	Wheels	A,H
	Deep grey plastic	Wheels	A,H
	White plastic	Wheels	A,H
C.	Clear plastic	Tray	В
	Soft clear plastic	Tray	C,D
D.	Translucent plastic	Card holder Wall hook	E F
	Flesh plastic	Plastic screw	C-G
E.	Bright red coating	Bright red paint (A1Y)	Н
F.	Dark green coating	Dark green paint (A5Y)	Н
G.	Dark blue coating	Dark blue paint (A7Y)	Н
Н.	Clear lacquer	Clear lacquer paint (A21Y)	A,G,H

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
Α	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					
Н	LT 0.005	PASS					

Detection Limit:

Results reported in percentage

DNOP = Di-n-octyl phthalate (0.005%) 117-84-0 DINP p LT = Less than ND = None detected

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 / DnPP / DPP / PiPP / 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
Α	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
Н	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 / DnPP / DPP / PiPP / DHP / 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear Content

Test 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
Α	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				
Н	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 68515-50-4 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:

FORMALDEHYDE RELEASE IN ACCESSIBLE RESIN-BONDED WOOD COMPONENTS (EN 71: Part 9: 2005 and Amendment A1: 2007)

Test Method: BS EN 717 Part 3, Wood-based panels - Determination of formaldehyde release - Part 3:

Formaldehyde release by the flask method.

Pa	rameter:	Formaldehyde Release				
Ма	ximum allowable limit:	80 (mg/kg	(ppm))			
	Test	t Component	Moisture	Result	Conclusion	
	Color/Component	Location	Style No.	Content (%)	(mg/kg (ppm))	
A.	bright light flesh / bright flesh wood	wooden board	A,G,H		LT 16	PASS

LT = Less than

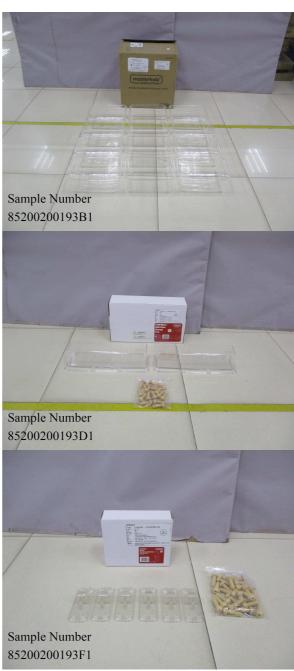
mg/kg (ppm) = milligrams per kilogram (ppm = parts per million)



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RESULTS:







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RESULTS:





END OF REPORT