

# Test Report

**Report No.:** NB2023086722

**Date:** August 14, 2023

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**Applicant:** NOBILITY INC

**Address:** 251 LITTLE FALLS DRIVE, WILMINGTON, DELAWARE, UNITED STATES, 19808

The following merchandise were submitted and identified by the clients as:

Sample Name: SainSmart Jr. Wooden Toys Series  
Model No. : 808-20-A11/808-20-T06/808-20-T07  
Country of Origin: Dongguan  
Exported to: US, CA  
Brand: SainSmart Jr.  
Manufacturer: Nobility Inc  
Manufacturer address: 251 Little Falls Drive, Wilmington, Delaware, United States, 19808  
Applicant's specified age group for testing: 3+ years old  
Testing Age Grading: 3+ years old

The following information were confirmed by the laboratory:

Sample Receiving Date: August 7, 2023  
Testing Period: From August 7, 2023 to August 11, 2023  
Test Results: Please refer to next pages

## **Test Requested**

Please refer to the next page

Signed for and on behalf of Guangdong NewBest Testing Service Co., Ltd.

Approved by:

  
  
Manager

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## Summary of test results

Test Requested	Conclusion
1 Mechanical Hazards Requirements -ASTM F963-17, Standard Consumer Safety Specification for Toy Safety	PASS
2 Flammability of Solids Requirement -ASTM F963-17,A5, Standard Consumer Safety Specification for Toy Safety	PASS
3 Mechanical and Physical Properties and Flammability - Canada Consumer Product Safety Act,Toys Regulations SOR/2011-17	PASS
4 Total Lead Content in Surface Coating - ASTM F963-17, Section 4.3.5.1(1)	PASS
5 Total Lead Content in Substrate - ASTM F963-17, Section 4.3.5.2(2)(a)	PASS
6 Soluble Heavy Metals Content in Surface Coating - ASTM F963-17, Section 4.3.5.1(2)	PASS
7 Soluble Heavy Metals Content in Substrate - ASTM F963-17, Section 4.3.5.2(2)(b)	PASS
8 Total Lead Content in Surface Coating - United States Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 101(f) / United States Code of Federal Regulations (CFR), Title 16, Part 1303	PASS
9 Total Lead Content in Substrate - United States Consumer Product Safety Improvement Act (CPSIA) Section 101(a)(2)	PASS
10 Phthalates Content in Children's Toys and Childcare Articles – Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 108 / 16 CFR part 1307	PASS
11 The Heavy Metals Content in Surface Coating - Toys Regulations SOR/2011-17 with its Latest Amendment, Section 23/ Regulations Amending Certain Regulations Made Under CCPSA (Surface Coating Materials) (SOR/2022-122).	PASS
12 The Soluble Heavy Metals Content in Plastic Materials - Canada Consumer Product Safety Act (CCPSA), S.C. 2010, c. 21, Toys Regulations SOR/2011-17 with its Latest Amendment, Section 27 (a)	PASS
13 Total Lead Content in Consumer Products - Canada Consumer Product Safety Act (CCPSA), S.C. 2010, c. 21, Consumer Products Containing Lead Regulations SOR/2018-83	PASS
14 Total Lead Content in Surface Coating - Canada Consumer Product Safety Act, Surface Coating Materials Regulation, SOR/2016-193 Sec. 2	PASS
15 Total Mercury Content in Surface Coating Materials - Canada Consumer Product Safety Act, Surface Coating Materials Regulation, SOR/2016-193 Sec 5	PASS
16 Phthalates Content in Children's Toys And Childcare Articles - Canada Consumer Product Safety Act, Phthalate Regulations, SOR/2016-188	PASS

Remark: Tested part(s) was/were specified by client.

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**Test results:**

Tested part(s) description:

Test Item(s)	Description	Location	Sample No.
I001	Grass green plastic	Rotary knob	1
I002	Red plastic	Track	1
I003	Bright black plastic	Wheel of train & carriage	1,2
I004	Black soft plastic	Tire of wheel	1
I005	Matte black plastic	Carriage connection	1,2
I006	Black plastic	Wheel of car	1
I007	Dark red plastic	Train	1
I008	White plastic	traffic lights/traffic signs	1
I009	Gray plastic	Street lamp	1
I010	Beige plastic	fishing rod/crane	1,2
I011	Dark gray plastic	Holder	1
I012	Matte red plastic	Bridge frame	2
I013	Orange plastic	Traffic Cones	2
I014	Silvery metal	Flat head Phillips screws	1
I015	Silvery metal	Raised cross screws	1
I016	Silvery metal	Screw of the fish	1
I017	Silvery metal	Carriage connection	1,2
I018	Matte silvery metal	Axle of train	1
I019	Silvery metal	Axle of train & car	1,2
I020	Black plated metal	Small screw of train base	1
I021	Silvery metal	Train base	1
I022	Silvery metal	Convex screw of carriage	2
I023	Silvery metal	Small flat head Phillips screws	2
I024	Matte black magnet	Carriage connection	2
I025	Natural wood	Lift bridge strut/track /block/train/car/crane	1,2
I026	Dark brown fiberboard	Road/Lift bridge frame/crane base	1,2
I027	Light beige plywood	Fish	1
I028	Light green felt	Puzzle	1
I029	Dark blue rope	Rope of fishing rod	1
I030	Red rope	Rope	1
I031	White rope	Rope	2
I032	Natural plywood	Crane	2
I033	Gray/white/dark gray/blue coating	Surface of road	1

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# Test Report

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Test Item(s)	Description	Location	Sample No.
I034	Red/gray/black/dark red coating	Surface of lift bridge & block & traffic signs	1,2
I035	Matte red/silver/white/black coating	Surface of carriage	1
I036	Light red/white/light brown/apricot coating	Surface of carriage	1
I037	Deep red/black/white coating	Surface of car & train	1,2
I038	Multi-color coating	Surface of children & fish & traffic signs	1,2
I039	Green coating	Surface of tress	1,2
I040	Navy blue/pale pink coating	Surface of block	1
I041	Dark green coating	Surface of block	1
I042	Yellow/black/light green coating	Surface of traffic lights & block & traffic signs & street lamp	1,2
I043	Dark yellow/light blue/orange/black/white coating	Surface of crane & school bus	1,2
I044	Deep gray/light gray/white coating	Surface of crane base	2
I045	Deep green coating	Surface of carriage	2
I046	Deep blue coating	Surface of carriage	2
I047	Multi-color coating	Block(man)	2
I048	Multi-color coating	Block(woman)	2
I049	Sainsmart jr. Wooden toys series	--	--

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**1. Mechanical Hazards Requirements -ASTM F963-17, Standard Consumer Safety Specification for Toy Safety<sup>s</sup>**

Section	Requirement	Result
4	Safety requirements	
4.1	Material Quality	M
4.3.7	Stuffing Materials	N/A
4.4	Electrical/thermal energy	N/A
4.5	Sound-Producing Toys	N/A
4.6	Small Objects	N/A
4.6.1	Toys that are intended for children under 36 months	N/A
4.6.2	Mouth-Actuated Toys	N/A
4.6.3	Toys and games that are intended for use by children who are at least three years old (36 months) but less than six years of age (72 months)	N/A
4.7	Accessible Edges	M
4.8	Projections	M
4.9	Accessible Points	M
4.10	Wires and Rods	N/A
4.11	Nails and Fasteners	M
4.12	Plastic Film	N/A
4.13	Folding Mechanisms and Hinges	N/A
4.13.1	Folding Mechanisms	N/A
4.13.2	Hinge-Line Clearance	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	M
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	
4.25.1	The toy shall be marked permanently on the battery compartment or on the area immediately adjacent to the battery compartment to show the correct battery polarity using the polarity symbols "+" and "-"	M

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Section	Requirement	Result
4.25.2	The maximum allowable direct current potential between any two accessible electrical points is 24 V nominal	M
4.25.3	Battery-operated toys shall be designed so that it is not possible to charge any non-rechargeable battery	M
4.25.4	For toys intended for children less than 3 years old, all batteries shall not be accessible	N/A
4.25.5	For all toys, batteries that fit completely within the small parts test cylinder shall not be accessible	M
4.25.6	Batteries of different types or capacities shall not be mixed within any single electrical circuit	M
4.25.7	The surfaces of the batteries shall not achieve temperatures exceeding 71°C	M
4.25.8	No condition shall occur that would cause the toy to fail the temperature requirements of 4.25.7 or present a combustion hazard as described in 4.25	M
4.25.9	Battery-operated toys shall meet the requirements of 6.5 for instructions on safe battery usage. Toys which use non-replaceable batteries as the only source of power are not subject to 6.5.	NR
4.25.10	Battery-Powered Ride-On Toys	N/A
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
4.28	Stroller and carriage toys	N/A
4.29	Art materials	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	M
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A
4.41	Toy chests	N/A
5	Labeling Requirements	NR
6	Instructional Literature	
6.1	Definition and Description	NR
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4	Toys Intended to be Assembled by and Adult	N/A

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Section	Requirement	Result
6.5	Battery operated toys	NR
6.6	Battery powered ride-on toys	N/A
6.7	Toys in Contact with Food	N/A
6.8	Toy Chests	N/A
7	Producer's Markings	
7.1	Producer's Markings	NR
7.2	Battery powered ride on toys	N/A
7.3	Toy chests	N/A
8	Test Methods	
8.5	Normal Use Testing	M
8.6	Abuse Testing	M
8.7	Impact Test	M
8.8	Torque Test	M
8.9	Tension Test	M
8.10	Compression Test	M

Note: M = Meet NM = Not meet N/A = Not Applicable NR = Not Requested by the client

## **2. Flammability of Solids Requirement -ASTM F963-17,A5, Standard Consumer Safety Specification for Toy Safety<sup>s</sup>**

Test Method: Federal Hazardous Substances Act (FHSA) 16 CFR 1500.44

Test Item(s)	Burn rate (in/sec.)	Result
I049	0	DNI

- Note:**
1. In accordance with the ASTM F963, the burning rate should not be greater than 0.1 inch per second.
  2. All styles of submitted samples were tested, the above result only showed the most severe burn rate of submitted samples.
  3. DNI = Did Not Ignite IBE =Ignited But Extinguished

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**3. Mechanical and Physical Properties and Flammability - Canada Consumer Product Safety Act, toys Regulations SOR/2011-17<sup>s</sup>**

Section	Testing Items	Assessment
3	GENERAL-Official languages	NR
4	Packaging-Flexible film bags	NR
7	Small parts	N/A
8	Metal edges	M
9	Wire frames	N/A
10	Plastic edges	M
11	Wood	M
12	Glass	N/A
13	Fasteners	M
14	Safety stops or locking devices-Folding mechanisms	N/A
15	Spring-wound driving mechanism	N/A
16	Projectile component	N/A
17	Enclosures	N/A
18	Stability	N/A
19	Auditory hazards-Decibel limit	N/A
21	Flammability hazards-Celluloid or cellulose nitrate	M
28	Dolls, Plush toys or Soft toys-Fastening	N/A
29	Dolls, Plush toys or Soft toys-Stuffing materials	N/A
30	Dolls, Plush toys or Soft toys-Small parts	N/A
31	Dolls, Plush toys or Soft toys-Eyes or nose	N/A
32	Dolls, Plush toys or Soft toys-Flammability of outer covering	N/A
33	Dolls, Plush toys or Soft toys-Flammability of yarn	N/A
34	Dolls, Plush toys or Soft toys-Flammability of hair or mane	N/A
35	Plant seeds-Noise	N/A
36	Plant seeds-Stuffing Material	N/A
37	Pull and push toys-Shaft-like handles	N/A
38	Boilers-safety valves	N/A
39	Water-based paints	N/A
40	Rattles	N/A
41	Elastics	N/A
42	Yo-Yo type balls	N/A

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Section	Testing Items	Assessment
43	Magnetic Toys - Magnetic force	M
44	Magnetic Toys - Exceptions&Warning	N/A

**Note:** M = Meet NM = Not meet N/A = Not Applicable NR = Not Requested by the client  
Per client's requirement, Section 4 was not evaluated

#### 4. Total Lead Content in Surface Coating - ASTM F963-17, Section 4.3.5.1(1)

Test Method: ASTM F963-17 Section 8.3.1, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	90 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I033+I034+I035	N.D.	PASS
I036+I037+I038	N.D.	PASS
I039+I040+I041	N.D.	PASS
I042+I043+I044	N.D.	PASS
I045+I046	N.D.	PASS
I047+I048	N.D.	PASS

**Note:** N.D.= Not Detected(<MDL)  
mg/kg = milligram per kilogram = ppm = part per million  
MDL= Detection Limit (mg/kg): 10  
Results shown are of the total weight of mixed samples.

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**5. Total Lead Content in Substrate - ASTM F963-17, Section 4.3.5.2(2)(a)**

Test Method: ASTM F963-17 Section 8.3.1, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	100 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I001+I002+I003	N.D.	PASS
I004+I005+I006	N.D.	PASS
I007+I008+I009	N.D.	PASS
I010+I011	N.D.	PASS
I012+I013	N.D.	PASS
I014+I015+I016	26	PASS
I017+I018+I019	22	PASS
I020+I021	29	PASS
I022+I023	23	PASS
I024	23	PASS
I026	13	PASS
I027+I032	N.D.	PASS

Note: N.D.= Not Detected(<MDL)  
mg/kg = milligram per kilogram = ppm = part per million  
MDL= Detection Limit (mg/kg): 10  
Results shown are of the total weight of mixed samples.

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## 6. Soluble Heavy Metals Content in Surface Coating - ASTM F963-17, Section 4.3.5.1(2)

Test Method: ASTM F963-17, Sections 8.3.2 to 8.3.4, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry.

Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I033	I034	I035	I036	I037	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	26	113	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	--

Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I038	I039	I040	I041	I042	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	5	N.D.	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	--

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Analyte	Result (mg/kg)						Limit (mg/kg)
	Test Item(s)						
	I043	I044	I045	I046	I047	I048	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	8	5	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	PASS	--

Note: N.D.= Not Detected(<MDL)  
mg/kg = milligram per kilogram = ppm = part per million  
MDL= Detection Limit (mg/kg): 5

## 7. Soluble Heavy Metals Content in Substrate - ASTM F963-17, Section 4.3.5.2(2)(b)

Test Method: ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3)), Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry.

Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I001	I002	I003	I004	I005	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	9	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	--

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Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I006	I007	I009	I010	I011	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	--

Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I012	I013	I025	I026	I027	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	5	12	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	--

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Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I028	I029	I030	I031	I032	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	--

Note: N.D.= Not Detected(<MDL)  
mg/kg = milligram per kilogram = ppm = part per million  
MDL= Detection Limit (mg/kg): 5

**8. Total Lead Content in Surface Coating - United States Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 101(f) / United States Code of Federal Regulations (CFR), Title 16, Part 1303**

Test Method: CPSC-CH-E1003-09.1, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	90 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I033+I034+I035	N.D.	PASS
I036+I037+I038	N.D.	PASS
I039+I040+I041	N.D.	PASS
I042+I043+I044	N.D.	PASS
I045+I046	N.D.	PASS
I047+I048	N.D.	PASS

Note: N.D.= Not Detected(<MDL)  
mg/kg = milligram per kilogram = ppm = part per million  
MDL= Detection Limit (mg/kg): 10

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**9. Total Lead Content in Substrate - United States Consumer Product Safety Improvement Act (CPSIA) Section 101(a)(2)**

Test Method: CPSC-CH-E1002-08.3, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	100 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I001+I002+I003	N.D.	PASS
I004+I005+I006	N.D.	PASS
I007+I008+I009	N.D.	PASS
I010+I011	N.D.	PASS
I012+I013	N.D.	PASS
I014+I015+I016	26	PASS
I017+I018+I019	22	PASS
I020+I021	29	PASS
I022+I023	23	PASS
I024	23	PASS
I026	13	PASS
I027+I032	N.D.	PASS

Note: N.D.= Not Detected(<MDL)  
 mg/kg = milligram per kilogram = ppm = part per million  
 MDL= Detection Limit (mg/kg): 10  
 Results shown are of the total weight of mixed samples.

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**10. Phthalates Content in Children's Toys and Childcare Articles – Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 108 / 16 CFR part 1307**

Test Method: CPSC-CH-C1001-09.4, Analyzed by Gas Chromatography-Mass Spectrometer.

Analyte	Requirement (%, w/w)	Result (%, w/w)		
		Test Item(s)		
		I001+I002 +I003	I004+I005+ I006	I007+I008+ I009
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	N.D.	N.D.	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.	N.D.
<b>Conclusion</b>	--	PASS	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)		
		Test Item(s)		
		I010+I011	I012+I013	I033+I034 +I035
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	N.D.	N.D.	0.008
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.	0.006
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.	N.D.
<b>Conclusion</b>	--	PASS	PASS	PASS

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Analyte	Requirement (%, w/w)	Result (%, w/w)		
		Test Item(s)		
		I036+I037 +I038	I039+I040 +I041	I042+I043 +I044
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	N.D.	N.D.	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.	N.D.
<b>Conclusion</b>	--	PASS	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I045+I046	I047+I048
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	N.D.	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
<b>Conclusion</b>	--	PASS	PASS

Note: N.D. = Not detected(<MDL)  
 mg/kg = milligram per kilogram = ppm = part per million  
 10000 mg/kg = 1 %  
 Results shown are of the total weight of mixed samples.

MDL= Detection Limit: 0.005%

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**11. Heavy Metals Content in Surface Coating - Toys Regulations SOR/2011-17 with its Latest Amendment, Section 23/ Regulations Amending Certain Regulations Made Under CCPSA (Surface Coating Materials) (SOR/2022-122).**

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7 & EN 71-3:2019+A1:2021

Analyte	Result (mg/kg)			Requirement (mg/kg)
	Test Item(s)			
	I033+I034+I035	I036+I037+I038	I039+I040+I041	
Total Lead (Pb)	N.D.	N.D.	N.D.	90
Total Mercury (Hg)	N.D.	N.D.	N.D.	ND
<b>Conclusion</b>	PASS	PASS	PASS	--

Analyte	Result (mg/kg)			Requirement (mg/kg)
	Test Item(s)			
	I042+I043+I044	I045+I046	I047+I048	
Total Lead (Pb)	N.D.	N.D.	N.D.	90
Total Mercury (Hg)	N.D.	N.D.	N.D.	ND
<b>Conclusion</b>	PASS	PASS	PASS	--

Analyte	Result (mg/kg)					Requirement (mg/kg)
	Test Item(s)					
	I033	I034	I035	I036	I037	
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Barium (Ba)	26	113	N.D.	N.D.	N.D.	1000
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	--

Analyte	Result (mg/kg)					Requirement (mg/kg)
	Test Item(s)					
	I038	I039	I040	I041	I042	
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Barium (Ba)	N.D.	N.D.	5	N.D.	N.D.	1000
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	--

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Analyte	Result (mg/kg)						Requirement (mg/kg)
	Test Item(s)						
	I043	I044	I045	I046	I047	I048	
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Barium (Ba)	N.D.	8	5	N.D.	N.D.	N.D.	1000
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	PASS	--

Note: N.D.= Not Detected(<MDL)  
 mg/kg = milligram per kilogram = ppm = part per million  
 MDL= Detection Limit (mg/kg): Total (Pb: 10;Hg: 10 )  
 Soluble (Sb: 5; As: 5; Cd: 5; Se: 5; Ba: 5)

**12. Soluble Heavy Metals Content in Plastic Materials - Canada Consumer Product Safety Act (CCPSA), S.C. 2010, c. 21, Toys Regulations SOR/2011-17 with its Latest Amendment, Section 27 (a)**

Test Method: Reference to ASTM International Standard ASTM F963-17, Section 8.3.

Analyte	Result (mg/kg)					Requirement (mg/kg)
	Test Item(s)					
	I001	I002	I003	I004	I005	
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	9	1000
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	--

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Analyte	Result (mg/kg)					Requirement (mg/kg)
	Test Item(s)					
	I006	I007	I008	I009	I010	
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	--

Analyte	Result (mg/kg)			Requirement (mg/kg)
	Test Item(s)			
	I011	I012	I013	
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	60
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	75
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	60
Soluble Arsenic (As)	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	1000
Soluble Selenium (Se)	N.D.	N.D.	N.D.	500
<b>Conclusion</b>	PASS	PASS	PASS	--

Note: N.D.= Not Detected(<MDL)  
mg/kg = milligram per kilogram = ppm = part per million  
MDL= Detection Limit (mg/kg): 5

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**13. Total Lead Content in Consumer Products - Canada Consumer Product Safety Act (CCPSA), S.C. 2010, c. 21, Consumer Products Containing Lead Regulations SOR/2018-83**

Test Method: Acid digestion method was used, and then followed by Inductively Coupled Plasma Optical Emission Spectrometry analysis

Limit	90 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I001+I002+I003	N.D.	PASS
I004+I005+I006	N.D.	PASS
I007+I008+I009	N.D.	PASS
I010+I011	N.D.	PASS
I012+I013	N.D.	PASS
I014+I015+I016	26	PASS
I017+I018+I019	22	PASS
I020+I021	29	PASS
I022+I023	23	PASS
I024	23	PASS
I026	13	PASS
I027+I032	N.D.	PASS
I033+I034+I035	N.D.	PASS
I036+I037+I038	N.D.	PASS
I039+I040+I041	N.D.	PASS
I042+I043+I044	N.D.	PASS
I045+I046	N.D.	PASS
I047+I048	N.D.	PASS

Note: N.D.= Not Detected(<MDL)  
mg/kg = milligram per kilogram = ppm = part per million  
MDL= Detection Limit (mg/kg): 10

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**14. Total Lead Content in Surface Coating - Canada Consumer Product Safety Act, Surface Coating Materials Regulation, SOR/2016-193 Sec. 2**

Test Method: Product safety laboratory Book 5-Laboratory Policies and Procedures Part B:Test methods section, Method C-02.2(2017) Determination of Total Lead in Surface Coating Materials in Consumer Products

Limit	90 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I033+I034+I035	N.D.	PASS
I036+I037+I038	N.D.	PASS
I039+I040+I041	N.D.	PASS
I042+I043+I044	N.D.	PASS
I045+I046	N.D.	PASS
I047+I048	N.D.	PASS

Note: N.D.= Not Detected(<MDL)  
mg/kg = milligram per kilogram = ppm = part per million  
MDL= Detection Limit (mg/kg): 10

**15. Total Mercury Content in Surface Coating Materials - Canada Consumer Product Safety Act, Surface Coating Materials Regulation, SOR/2016-193 Sec 5**

Test Method: Product safety laboratory Book 5-Laboratory policies and procedures Part B:Test methods section, Method C-07(2017) Determination of Total Mercury in Surface Coating Materials, Applied Coatings, and Cosmetic Samples

Limit	Not Detectable ( Less than 10 mg/kg )	
Test Item(s)	Result (mg/kg)	Conclusion
I033+I034+I035	N.D.	PASS
I036+I037+I038	N.D.	PASS
I039+I040+I041	N.D.	PASS
I042+I043+I044	N.D.	PASS
I045+I046	N.D.	PASS
I047+I048	N.D.	PASS

Note: N.D.= Not Detected(<MDL)  
mg/kg = milligram per kilogram = ppm = part per million  
MDL= Detection Limit (mg/kg): 10

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**16. Phthalates Content in Children's Toys And Childcare Articles - Canada Consumer Product Safety Act, Phthalate Regulations, SOR/2016-188**

Test Method: Analyzed by Gas Chromatography-Mass Spectrometer.

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I001+I002+I003	I004+I005+I006
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	N.D.	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-isononyl phthalate (DINP)	0.1	N.D.	N.D.
Di-isodecyl phthalate (DIDP)	0.1	N.D.	N.D.
Di-n-octyl phthalate (DNOP)	0.1	N.D.	N.D.
<b>Conclusion</b>	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I007+I008+I009	I010+I011
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	N.D.	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-isononyl phthalate (DINP)	0.1	N.D.	N.D.
Di-isodecyl phthalate (DIDP)	0.1	N.D.	N.D.
Di-n-octyl phthalate (DNOP)	0.1	N.D.	N.D.
<b>Conclusion</b>	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)
		Test Item(s)
		I012+I013
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.
Di-isononyl phthalate (DINP)	0.1	N.D.
Di-isodecyl phthalate (DIDP)	0.1	N.D.
Di-n-octyl phthalate (DNOP)	0.1	N.D.
<b>Conclusion</b>	--	PASS

Note: N.D. = Not detected(<MDL)  
mg/kg = milligram per kilogram = ppm = part per million  
10 000 mg/kg = 1 %

MDL= Detection Limit: 0.005%

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Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

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Samples photograph



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NBTS authenticate the photograph on original report only

\*\*\* End of Report \*\*\*

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