



TEST REPORT

PINGHU UNITED VEHICLES CO., LTD

Technical Report: (3225)297-0472
Date of Received: Oct.24,2025
Test period: Oct.24,2025~Jan.12,2026

Jan.12,2026

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PINGHU UNITED VEHICLES CO., LTD
NO 99, TONGCHE ROAD, XINCANG TOWN,
PINGHU CITY, ZHEJIANG PROVINCE, CHINA.

SAMPLE INFORMATION:

Sample Description:	CHILDREN RIDE-ON	Sample Quantity:	3PCS
Manufacturer:	SAME AS APPLICANT	Style No(s):	A8811
Labeled Age Grade:	FROM 3 YEARS OF AGE	Country of Origin:	CHINA
Appropriate Age Grade:	FROM 3 YEARS OF AGE	Country of Destination:	US,CA
Tested Age Grade:	FROM 3 YEARS OF AGE	/	/

EXECUTIVE SUMMARY:

TEST REQUESTED	CONCLUSION
16 CFR 1501 Small Parts	NA
16 CFR 1500.48 Sharp Points	PASS
16 CFR 1500.49 Sharp Edges	PASS
The mechanical hazards requirements of ASTM F963-23, "Standard consumer safety specification for toy safety.	PASS
The labeling requirements of ASTM F963-23, "Standard consumer safety specification for toy safety.	PASS
The flammability requirement of solids under ASTM F963-23 section 4.2 according to Annex A5, "Flammability testing procedure for solids and soft toys"	PASS
The Tracking Label Requirement of The Consumer Product Safety Improvement Act (CPSIA) of 2008 Section 103 Tracking Labels for Children's Products and ASTM F963-23 clause 5.1.2.	PASS
The mechanical hazards requirements of the tested sections of Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 and Schedule 2	PASS
The cellulose nitrate requirements of Canada Toys Regulations, SOR/2011-17, section 21	PASS
Phthalates Content in Children's Toys and Child Care Articles - United States Code of Federal Regulations (CFR), Title 16, Part 1307	PASS
Phthalates Content in Toys and Child Care Articles - Canada Consumer Product Safety Act (CCPSA), S.C. 2010, c. 21, Phthalates Regulations SOR/2016-188	PASS
Total Lead Content in Surface Coating Materials - Canada Consumer Product Safety Act (CCPSA), S.C. 2010, c. 21, Surface Coating Materials Regulations SOR/2016-193, Section 2(1)	PASS
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
Total Lead Content in Surface Coating - United States Consumer Product Safety Improvement Act (CPSIA), Section 101(a)(2)	PASS
Phthalates Content - Reference to California Proposition 65 List of Chemicals & As Client's requirement	PASS
Total Lead Content in Substrate - United States Consumer Product Safety Improvement Act (CPSIA) Section 101(a)(2)	PASS
Total Lead Content in Surface Coating- Reference to California Proposition 65 List of Chemicals & As Client's requirement	PASS
Total Lead Content in Substrate - Reference to California Proposition 65 List of Chemicals & As Client's requirement	PASS

Bureau Veritas Testing Technical
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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.	PASS
Total Lead Content in Surface Coating - Illinois Statutes, 410 ILCS 45 Lead Poisoning Prevention Act with Amendments up to Public Act 098-0690, Section 6(b)	PASS
Total Lead Content in Substrate - Illinois Statutes, 410 ILCS 45 Lead Poisoning Prevention Act with Amendments up to Public Act 098-0690, Section 6(b)	PASS
Total lead content	PASS
Total Cadmium Content - Washington CSPA RCW Chapter 70A.430.020)	PASS
Phthalates Content- ASTM International Standard ASTM F963-23, Section 4.3.8 for Phthalates	PASS
Soluble Heavy Metals Content in Substrate - ASTM International Standard ASTM F963-23, Section 4.3.5.2(2)(b)	PASS
Total Lead in Surface Coating - ASTM International Standard ASTM F963-23, Section 4.3.5.1(1) for Total Lead Content in Surface Coating	PASS
Soluble Heavy Metals Content in Surface Coating - ASTM International Standard ASTM F963-23, Section 4.3.5.1(2)	PASS
Total Lead in Substrate Material - ASTM International Standard ASTM F963-23, Section 4.3.5.2(1) for Total Lead Content in Substrate Material	PASS
Washington Revised Code Section 70.240.020,Phthalates in Children's Product	PASS

Note:

- 1.The sample is tested as "FROM 3 YEARS OF AGE" .
- 2.Only PDF version artwork / packaging has been reviewed.

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Bureau Veritas Testing Technical Service (Zhejiang) Co., Ltd



Seb wang
LAB Manager
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Peter Xi
Technical support

Physical & Mechanical - USE & ABUSE TEST

Test method	Sharp Point(16CFR 1500.48)	Sharp Edge(16CFR 1500.49)	Small Part/ Small Ball(16CFR 1501)
Tip over Sec.1500.53(b)(4)(i)	PASS	PASS	NA
Torque (Sec1500.53e)	PASS	PASS	NA
Tension (Sec1500.53f)	PASS	PASS	NA

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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 F963-23, "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 BVCPs 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	4 in-lbs	1500.53(e)
Tension	15 lbs	1500.53(f)
Tip over	3 times	1500.53(b)(4)(i)

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ASTM F963-23 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

Section	Requirement	Result
4	Safety Requirements	-
4.1	Material Quality	M
4.2	Flammability	M (see result page)
4.3	Toxicology	-
4.3.2	Manufacturing and Packaging of Food	N/A
4.3.3	Indirect Food Additives	N/A
4.3.4	Cosmetics	N/A
4.3.5	Heavy Elements	-
4.3.5.1	Paint and Similar Surface-coating Materials	M (see result page)
4.3.5.2	Toy Substrate Materials	M (see result page)
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels, Powders, and Items of Avian Feather Origin	N/A
4.3.7	Stuffing Materials	N/A
4.3.8	Phthalates	M (see result page)
4.4	Electrical/Thermal Energy	N/A
4.5	Sound-producing Toys	M
4.6	Small Objects	-
4.6.1	Small Objects	N/A
4.6.2	Mouth-actuated Toys	N/A
4.6.3	Labelling requirement	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	-
4.13.1	<i>Folding Mechanisms</i>	N/A
4.13.2	<i>Hinge-line Clearance</i>	N/A
4.14	Cords, Straps and Elastics	N/A
4.15	Stability and Over-load Requirements	M
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	M
4.18	Holes, Clearances and Accessibility of Mechanisms	M

ASTM F963-23 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

Section	Requirement	Result
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	M
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
4.31	Balloons	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.33	Marbles	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
4.41	Toy Chests	N/A
5	Labeling Requirements	-
5.1	Federal Government Requirements	-
5.1.1	Specific Labeling Requirements	See Remark 1
5.1.2	Tracking label	M
5.2	Age Grading Labeling	Present
5.3	Safety Labeling Requirements	-
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	M
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

ASTM F963-23 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

Section	Requirement	Result
5.12	Art Materials (16CFR1500.14)(b)(8)	N/A
5.13	Electric toy (refer to 16 CFR 1505.3 for requirement labeling)	N/A
5.14	Battery-Operated Toys (exclude 5.14.1 and 5.14.2)	M
5.14.1 & 5.3	Battery-Powered Ride-On Toys	M
5.14.2 & 5.3	Button or Coin Cell Batteries	N/A
5.15	Promotional Materials	M
5.16 & 5.3	Magnets	N/A
6	Instructional Literature	-
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	M
6.5	Battery-Operated Toys	M
6.6	Battery-Powered Ride-On Toys	M
6.7	Toys in Contact with Food	N/A
6.8	<i>Toy Chests</i>	N/A
6.9	Toys which require a manufacturer-supplied specialty or custom tool to access the battery(ies)	N/A
7.1	Producer's Name and Address	M
7.2	Battery-powered Ride-on Toys	M
7.3	<i>Toy Chests</i>	N/A

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

Remark 1: All toys that fall within the definitions and requirements of the U.S. FHSA shall conform to the labeling requirement of that act. For specific requirements, reference 16 CFR 1500.3, 1500.14, 1500.19, 1500.82, 1500.83, 1500.86, 1500.121, 1500.122, 1500.123, 1500.125, 1500.126, 1500.127, 1500.128, 1500.130, 1505.3, and 1511.7. In addition, state labeling requirements may exist.

FLAMMABILITY (ASTM F963-23 section 4.2 according to Annex A5)

Requirement	Test Method Reference	Findings
Burn rate no greater than 0.1 of an inch per second	ASTM F963-23 section 4.2 according to Annex A5	Ignited but Self-Extinguished



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The Tracking Label Requirement of The Consumer Product Safety Improvement Act (CPSIA) of 2008 Section 103 Tracking Labels for Children's Products and ASTM F963-23 clause 5.1.2.

Requirements	Present on packaging
Present on packaging	M
Permanent	M
Location of production (City and country)	M (PINGHU,CHINA)
Date of production (month and year)	M (Oct.20th,2025)
Manufacturer or private labeler	M (PINGHU UNITED VEHICLES CO., LTD)

Requirements	Present on products
Present on product	M
Permanent	M
Location of production (City and country)	M (PINGHU CHINA)
Date of production (month and year)	M (Oct.20th,2025)
Manufacturer or private labeler	M (PINGHU UNITED VEHICLES CO., LTD)

M = Meet NM = Not Meet NT=Not Test

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Power source: Car: Lead-Acid Battery: DC 24V;Remote:2xAAA 1.5V;Steering wheel:2XAA 1.5V

Clause	Parameter / Observation	Result
4.25	Battery-Operated Toys	
	These requirements are intended to address potential risks of injury associated with battery usage in toys (for example, battery overheating, leakage, explosion and fire, and choking on or swallowing batteries). Both non-rechargeable and rechargeable batteries are subject to these requirements. --- after testing in accordance with the appropriate test methods de-scribed in 8.5 – 8.12. --- meet the dimensional requirements of the latest revision of ANSI C18.1 or the latest revision of IEC 60086-2 shall be selected for test purposes. --- When rechargeable batteries are specified by the manufacturer, fully recharged batteries shall be used for testing purposes.	PASS
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 "-". Additional markings located on the toy or in the instructions shall indicate the correct battery size and voltage. These markings are not required for non-replaceable batteries or secondary batteries that, by design, can only be inserted in the correct orientation. Battery compartments for button cell or coin cell batteries are not subject to this requirement if it is not practicable to mark the battery compartment due to size limitations or other considerations; in such instances, markings required by this section shall be in the instructions. N OTE 14—The battery compartment door is considered part of the battery compartment.	PASS
4.25.1.1	Toys containing non-replaceable batteries shall be labeled in accordance with 5.14.	PASS
	5.14 Battery-operated Toys— Toys with non-replaceable batteries that are accessible with the use of a coin, screwdriver, or other common household tool shall bear a statement that the battery is not replaceable. If the manufacturer determines that it is impractical to label the product, this information shall be placed on the packaging or in the instructions.	PASS
	5.14.1 Battery-powered Ride-on Toys: 5.14.1.1 Battery powered ride-on toys shall carry safety labeling in accordance with 5.3, consisting of the signal word " WARNING " and contain, at a minimum, text which clearly conveys the following: (a) To reduce the risk of injury, adult supervision is required. Never use in roadways, near motor vehicles, on or near steep inclines or steps, swimming pools or other bodies of water; always wear shoes, and never allow more than ____ rider(s) (b) RISK OF FIRE. Do not bypass. Replace only with ____.	PASS
	5.14.2 Button or Coin Cell Batteries: 5.14.2.1 The following requirements are applicable to consumer replaceable button or coin cell batteries that are 1.5 volts or greater, regardless of the chemistry, and are greater than 15 mm in diameter and fit within the small parts cylinder. The packaging and instructions of toys that operate from such button or coin cell batteries shall carry safety labeling in accordance with 5.3. (1) The packaging of toys that operate from such button or coin cell batteries shall indicate on the package the following: " Warning: Contains button or coin cell battery. Hazardous if swallowed—see instructions. " NOTE 29—Graphical icons conveying the same information can be substituted. (2) The instructions of toys that operate from such button or coin cell batteries shall carry safety labeling in accordance with 5.3. The language shall be placed	NA



Clause	Parameter / Observation	Result
4.25	Battery-Operated Toys	
	along with any other battery information that is included in the instructions (that is, how to change battery, etc.). If there are no instructions included with the product then the required labeling shall appear either on the package or in an insert packed with the product. The labeling shall consist of the alert symbol followed by the signal word "WARNING" and contain, at a minimum, the following text or equivalent text which clearly conveys the same information: "This product contains a Button or Coin Cell Battery. A swallowed Button or Coin Cell Battery can cause internal chemical burns in as little as two hours and lead to death. Dispose of used batteries immediately. Keep new and used batteries away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention."	
4.25.2	The maximum allowable direct current potential between any two accessible electrical points is 24 V nominal.	PASS
4.25.3	Battery-operated toys shall be designed so that it is not possible to charge any non-rechargeable battery. This can be achieved through physical design of the battery compartment or through the use of an appropriate electrical circuit design. This applies to situations in which a battery may be installed incorrectly (reversed) or in which a battery charger may be applied to a toy containing non-rechargeable batteries, or both. This section does not apply to circuits having one or two non-rechargeable batteries as the only source of power.	PASS
4.25.3.1	Toys having a circuit powered only by button cell type batteries are not subject to this requirement.	NA
4.25.4	Battery Accessibility —Battery accessibility before and after testing in accordance with 8.5 – 8.10 shall be determined in accordance with 4.25.4.1 or 4.25.4.2, as applicable. Testing is performed using the recommended batteries installed.	PASS
4.25.4.1	For toys intended for children less than 3 years old, no battery shall be accessible without requiring the use of a common household tool to access the battery(ies).	NA
4.25.4.2	For all toys that utilize batteries which fit completely within the small parts test cylinder shown in Fig. 3, such batteries shall not be accessible without requiring the use of a common household tool to access the battery(ies). NOTE 22—For toys intended for children 8 years and older that utilize batteries that are small parts, use the test parameters for children over 36 months to 96 months, listed in Table 5.	PASS
4.25.4.3	If a fastener is used to secure the battery compartment, it shall remain attached to the toy or battery compartment cover, before and after testing in accordance with 8.5 – 8.10.	PASS
4.25.4.4	As an alternative to a common household tool, manufacturers are permitted to elect to use a specialty fastener (for example, Torx, Hex) to secure the battery compartment, in accordance with the requirements of 4.25.4, if the appropriate tool is included with the toy, and instructional material conforming to 6.9 is included.	NA
4.25.5	Batteries of different types or capacities shall not be mixed within any single electrical circuit. In applications requiring more than one type or capacity of battery to provide different functions or in applications requiring the combination of alternating current and non-rechargeable batteries, each circuit shall be isolated electrically to prevent current from flowing between the individual circuits.	PASS



Clause	Parameter / Observation	Result
4.25	Battery-Operated Toys	
4.25.6	The surfaces of the batteries shall not achieve temperatures exceeding 71 °C	PASS
4.25.6.1	This requirement is applicable for all battery-operated toys during normal use conditions. In addition, battery-operated toys intended for children 96 months or less shall meet this requirement after reasonably foreseeable abuse.	PASS
4.25.6.2	If external moving parts of the toy that are mechanically linked to the motor can be stalled by the user, test for a stalled motor condition according to the procedures of 8.17 to determine conformance with the temperature limits.	PASS
4.25.7	No condition shall occur that would cause the toy to fail the temperature requirements of 4.25.6 or present a combustion hazard as described in 4.25.	PASS
4.25.7.1	For rechargeable lithium ion or lithium ion polymer batteries, the toy shall comply with the temperature requirements of 4.25.10.8 during normal use charging and any discharging of the battery.	NA
4.25.8	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.	PASS
	6.5 Battery-Operated Toys—For toys that use more than one battery per circuit, the instructions or the toy shall be marked with the following (or equivalent) information. 6.5.1 Do not mix old and new batteries. 6.5.2 Do not mix alkaline, standard (carbon-zinc), or rechargeable batteries.	PASS
4.25.9	Battery-powered Ride-on Toys —These requirements apply to circuits within wheeled ride-on toys, not intended for streets or roadways, using a battery power source that is capable of delivering at least 8 amps into any variable resistor load for a minimum of one minute when tested in 8.18.2.	PASS
4.25.9.1	The maximum temperature measured on the insulation of any conductor shall not exceed the certified temperature rating of the material when tested in accordance with 8.18.3.	PASS
4.25.9.2	Battery-powered ride-on toys shall not present a risk of fire when tested in accordance with the stalled motor test of 8.18.4.	PASS
4.25.9.3	A battery-powered ride-on toy designed with a wiring system that has a user replaceable device (fuse type) for the primary circuit protection or a wiring system with user resettable primary circuit protection (manual reset fuse) shall not actuate (open or trip) when tested in accordance with the nuisance tripping test of 8.18.5.	NA
4.25.9.4	Switches used in battery-powered ride-on toys. (1) Polymeric materials in switches used in battery-powered ride-on toys that are used to support current-carrying parts shall carry a minimum flame rating of UL-94 V-0 or have a glow wire ignition rating of 750 °C. NOTE 23—This requirement does not apply to switches used in low-power circuits. A low-power circuit is defined as one using an effective battery power source that is not capable of delivering more than 8 amps into any variable resistor load for more than one minute. (2) The switch body shall not result in a short-circuit condition when subjected to the switch endurance test and overload tests of 8.18.6.	PASS



Clause	Parameter / Observation	Result
4.25	Battery-Operated Toys	
	(3) The switch shall not fail in a mode that could cause the vehicle to run continuously (switch stuck in the "on" position) when subjected to the endurance test and the overload test in 8.18.6.	
4.25.9.5	User replaceable circuit protection devices in battery-powered ride-on toys. (1) User replaceable circuit protection devices provided by the manufacturer in battery-powered ride-on toys shall be listed, recognized or certified by a Nationally Recognized Test Laboratory (NRTL) (that is, a laboratory recognized in accordance with 29 CFR 1910) to an appropriate electrical safety standard. (2) All circuit protection devices used in battery-powered ride-on toys intended to be replaced by the user shall be replaceable only with the use of a tool or by a design which does not easily allow tampering such as a design requiring excessive force to open.	NA
4.25.9.6	Batteries, as described in 4.25.9, and battery chargers. (1) Battery connectors shall be constructed of material with a UL 94 V-0 flame rating or have a glow wire ignition rating of 750 °C. (2) The battery charging system shall not present a risk of fire due to a short-circuit condition applied to any point in the length of a charger/battery interconnecting cable when tested in accordance with 8.18.8. (3) During charging, battery-charging voltages shall not exceed the recommended charging voltages when tested in accordance with 8.18.7. (4) Battery chargers shall be certified to the appropriate current national standard, for example UL, CSA, or equivalent standards body.	PASS
4.25.9.7	Wiring connected to the main/motor battery shall be short-circuit protected and shall not present the risk of fire when tested in accordance with 8.18.8.	PASS
4.25.9.8	Strain relief shall be provided to prevent mechanical stress on wires entering a connector block during routine maintenance such as battery charging, and tested in accordance with 8.18.9.	PASS
4.25.9.9	Battery-powered ride-on toys shall comply with the requirements in 5.14.1 for safety labeling, 6.6 for additional instructional literature, and 7.2 for required producer's markings.	PASS
4.25.10	Toys that Contain Secondary Cells or Secondary Batteries: NOTE 24—The requirements of this section do not apply to the main drive circuit of battery-powered ride-on toys powered by batteries of any chemistry other than lithium (covered in 4.25.9).	NA
4.25.10.1	Cells used in lithium ion or lithium ion polymer batteries incorporated into or included with toys shall have an attestation from the battery manufacturer or other evidence that the cells comply with at least one of the following standards: (1) ANSI C18.2M Part 2 for Portable Rechargeable Cells and Batteries, or (2) UL 1642, Standard for Lithium Batteries, or (3) IEC 62133 Secondary Cells and Batteries Containing Alkaline or Other Non-acid Electrolytes—Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made From Them, For Use in Portable Applications.	NA



Clause	Parameter / Observation	Result
4.25	Battery-Operated Toys	
4.25.10.2	Lithium ion or lithium ion polymer batteries shall be compliant with one of the following standards: (1) ANSI C18.2M Part 2 for Portable Rechargeable Cells and Batteries, or (2) UL 2054, Standard for Household and Commercial Batteries, or (3) IEC 62133 Secondary Cells and Batteries Containing Alkaline or Other Non-acid Electrolytes—Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made From Them, For Use in Portable Applications or Equivalent Standards.	NA
4.25.10.3	Batteries that contain lithium ion or lithium ion polymer cells shall be provided with an enclosure that provides protection against damage to the cells and their circuitry during normal use and foreseeable abuse of the toy as specified in 8.5 – 8.10.	NA
4.25.10.4	During charging with the provided charging device, no cell shall exceed the cell or battery manufacturer's specified charging voltage, current, and temperature values when tested in accordance with 8.19.1, 8.19.2, and 8.19.3. (1) For batteries charged outside of the toy, if the manufacturer provides documentation that the battery and charger have not been modified by the manufacturer; have been tested as a system and the chargers are compliant with one of the following standards, then the testing and measurements required by 8.19.1, 8.19.2, 8.19.3, and 8.19.4 can be omitted: (a) ANSI/UL 2595, General Requirements for Battery-Powered Appliances (b) IEC 60950-1, Information Technology Equipment— Safety—Part 1: General Requirements	NA
4.25.10.5	During charging or discharge with the provided charger and load, as well as during normal operation and stalled motor test per 8.17 if applicable, and when tested in accordance with 8.19.1, 8.19.2, 8.19.3, and 8.19.4, the maximum charge or discharge current of any cell shall not exceed the cell manufacturer's specifications. Lithium ion or lithium ion polymer cell(s) cutoff voltage shall not be less than the manufacturer's specified minimum in any operating mode. Momentary current spikes until safety devices actuate are to be disregarded. NOTE 25—Care should be exercised when charging and discharging the battery so that the battery's physical environmental approximates normal use conditions, for example, if the battery is normally charged inside the battery compartment, the battery should be tested in this manner.	NA
4.25.10.6	Normal use charging and discharging of a secondary battery when tested in accordance with 8.19.1, 8.19.2, and 8.19.3, shall not result in surface temperature rises on any battery surfaces or any other accessible surface of the toy exceeding: (1) 25 °C if the surface is substantially metal, (2) 30 °C if the surface is ceramic or glass, (3) 35 °C if the surface is wood or plastic. If the battery is permanently installed in the toy, do not disassemble the toy to reach the battery.	NA
4.25.10.7	Battery chargers or power adaptors that plug into the electric mains power shall be listed by a Nationally Recognized Test Laboratory (NRTL) to an appropriate electrical safety standard. External connectors to chargers and batteries shall ensure that correct polarity is used during charging. Compliance is checked by visual inspection.	NA
4.25.10.8	Circuit wiring connected to lithium ion or lithium ion polymer and NiMH secondary batteries shall be short circuit protected and shall not present the risk of fire when tested in accordance with 8.19.5. During these tests, temperatures on any accessible surfaces of any secondary battery shall not exceed 60 °C if the surface is plastic or 50 °C if the surface is metal, glass or ceramic. In addition,	NA



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Clause	Parameter / Observation	Result
4.25	Battery-Operated Toys	
	inaccessible surfaces of lithium ion batteries shall not exceed 71 °C or the cell manufacturer's maximum temperature, whichever is less. Cells shall not cause explosion or fire as evidenced by signs of burning of the battery including burning or charring of the combustible materials specified in the test. If cells vent, electrolyte shall not become accessible. Secondary batteries which are removable shall not be able to be short circuited by placing terminals of opposite polarity against a flat conductive surface, unless no hazardous condition results when tested per 8.19.5.1. For lithium ion or lithium ion polymer batteries, short circuit protection shall be incorporated into the battery.	

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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

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

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

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

Section	Parameter / Requirement	Result
42	Yo-Yo type balls	N/A

CANADA CONSUMER PRODUCT SAFETY ACT, SCHEDULE 2

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

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

SOR/2018-138 Amending the Toys Regulations (Magnetic Toys)

Section	Parameter / Requirement	Result
43	Magnetic force	N/A
44	Educational experimental kit - Labeling	N/A

M = Meet NM = Not Meet NA = Not Applicable R = Refer to Comment Section

**HEATED SURFACES, PARTS OR SUBSTANCES
TOY REGULATIONS SOR/2011-17 SECTION 20**

Requirement Reference	Observation	Flammability Classification
Section 20	Heated surfaces, parts or substances	M

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

Requirement Reference	Observation	Flammability Classification
Section 21	No Flash Effect	M
Section 21	With Flash Effect	N/A

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

Tested Component(s) Breakdown List

Test Item	Description	Location	Style
1	Black coating	On metal	-
2	Black plastic	Body	-
3	Black frosted plastic	Seat	-
4	Black plastic	Wheel	-
5	Black soft plastic	Wheel	-
6	Bright black plastic	Wheel hub	-
7	Multicolor soft plastic with adhesive	-	-
8	Transparent plastic	Car lights	-
9	Orange transparent plastic	Car lights	-
10	Black tape	-	-
11	White plastic	Remote control	-
12	Translucent plastic	Remote control	-
13	Black plastic	Big plug	-
14	Black plastic	Small plug	-
15	Black soft plastic with grey printing	Wire jacket	-
16*	White coating	On plastic	-
17	Offwhite plastic	Base	-
18	Red transparent plastic	Switch	-
19	Black soft plastic with adhesive	-	-
20	Transparent plastic	Dust cover	-
21*	Grey coating	On plastic	-
22	Transparent plastic	Ring	-
23	Black soft plastic with white printing	Cannula	-
24	Black soft plastic	Wire jacket	-
25	Yellow soft plastic	Wire jacket	-
26	Red soft plastic	Wire jacket	-
27	Green soft plastic	Wire jacket	-
28	Blue plastic	Port	-
29	Offwhite plastic	Port	-
30	Green plastic	Car body	-
31	Bright black plastic	Dust cover	-
32	Bright green plastic	Wheel hub	-
33	Silver metal with light blue plating	Screw	-
34	Silver metal	Sheet	-
35	Silver metal	Tube	-
36	Silver metal	Big plug	-
37	Silver metal	Small plug	-
38	Silver metal with light blue plating	Nut	-
39	Silver metal with light blue plating	Gasket	-
40	Silver metal with light blue plating	Bolt	-

41	Black metal	Rivet	-
42	Silver metal with light blue plating	Clip	-
43	Red plastic	Remote control	-
44	Bice plastic	Accessory	-
45	Deep bice plastic	Accessory	-
46	Dark green plastic	Accessory	-
47	Orange plastic	Accessory	-
48	Red plastic	Accessory	-
49	Blue plastic	Accessory	-
50	Brown plastic	Accessory	-
51	White plastic	Accessory	-
52	Pink plastic	Accessory	-
53	Light green plastic	Accessory	-
54	Gold plastic	Accessory	-
55	Light grey plastic	Accessory	-
56	Black plastic	Accessory	-
57	Yellow plastic	Accessory	-
58	Deep orange plastic	Accessory	-
59	Grey plastic with glitter	Accessory	-
60	Blue plastic with glitter	Accessory	-
61	Navy blue plastic with glitter	Accessory	-
62	Nude plastic	Accessory	-
63	Deep red plastic	Accessory	-
64	Deep green plastic	Accessory	-

Phthalates Content in Children's Toys and Child Care Articles - United States Code of Federal Regulations (CFR), Title 16, Part 1307

Test Method : CPSC-CH-C1001-09.4

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
				1	2 + 3 + 4	5 + 6 + 8	7
	-	-	-	1	2 + 3 + 4	5 + 6 + 8	7
DBP	84-74-2	%	<0.1	ND	ND	ND	ND
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DEHP	117-81-7	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0 0&68515-48-0	%	<0.1	ND	ND	ND	ND
DHEXP	84-75-3	%	<0.1	ND	ND	ND	ND
DiBP	84-69-5	%	<0.1	ND	ND	ND	ND
DPENP	131-18-0	%	<0.1	ND	ND	ND	ND
DCHP	84-61-7	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	9 + 11 + 12	13 + 14 + 15	16 + 21	17 + 18 + 20
DBP	84-74-2	%	<0.1	ND	ND	ND	ND
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DEHP	117-81-7	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0&68515-48-0	%	<0.1	ND	ND	ND	ND
DHEXP	84-75-3	%	<0.1	ND	ND	ND	ND
DiBP	84-69-5	%	<0.1	ND	ND	ND	ND
DPENP	131-18-0	%	<0.1	ND	ND	ND	ND
DCHP	84-61-7	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	19	22 + 28 + 29	23 + 24 + 25	26 + 27
DBP	84-74-2	%	<0.1	ND	ND	ND	ND
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DEHP	117-81-7	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0&68515-48-0	%	<0.1	ND	ND	ND	ND
DHEXP	84-75-3	%	<0.1	ND	ND	ND	ND
DiBP	84-69-5	%	<0.1	ND	ND	ND	ND
DPENP	131-18-0	%	<0.1	ND	ND	ND	ND
DCHP	84-61-7	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	30 + 31 + 32	43	44 + 45 + 46	47 + 48 + 49
DBP	84-74-2	%	<0.1	ND	ND	ND	ND
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DEHP	117-81-7	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0&68515-48-0	%	<0.1	ND	ND	ND	ND
DHEXP	84-75-3	%	<0.1	ND	ND	ND	ND
DiBP	84-69-5	%	<0.1	ND	ND	ND	ND



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DPENP	131-18- 0	%	<0.1	ND	ND	ND	ND
DCHP	84-61- 7	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	50 + 51 + 52	53 + 54 + 55	56 + 57 + 58	59 + 60 + 61
DBP	84-74-2	%	<0.1	ND	ND	ND	ND
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DEHP	117-81-7	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0&68515-48-0	%	<0.1	ND	ND	ND	ND
DHEXP	84-75-3	%	<0.1	ND	ND	ND	ND
DiBP	84-69-5	%	<0.1	ND	ND	ND	ND
DPENP	131-18- 0	%	<0.1	ND	ND	ND	ND
DCHP	84-61- 7	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result
	-	-	-	62 + 63 + 64
DBP	84-74-2	%	<0.1	ND
BBP	85-68-7	%	<0.1	ND
DEHP	117-81-7	%	<0.1	ND
DINP	28553-12-0&68515-48-0	%	<0.1	ND
DHEXP	84-75-3	%	<0.1	ND
DiBP	84-69-5	%	<0.1	ND
DPENP	131-18- 0	%	<0.1	ND
DCHP	84-61- 7	%	<0.1	ND
Conclusion	-	-	-	PASS

Note / Key: ND = Not Detected Conc. = Concentration
Detection Limit (%): Each 0.005 % = percentage

Remark:
- The list of phthalates is summarized in table of Appendix.

List of Phthalates Content In Children's Toys And Child Care Articles - United States Code Of Federal Regulations (CFR), Title 16, Part 1307

No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	DBP	84-74-2	5	DHEXP	84-75-3
2	BBP	85-68-7	6	DiBP	84-69-5



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3	DEHP	117-81-7	7	DPENP	131-18-0
4	DINP	28553-12-0&68515-48-0	8	DCHP	84-61-7

Phthalates Content in Toys and Child Care Articles - Canada Consumer Product Safety Act (CCPSA), S.C. 2010, c. 21, Phthalates Regulations SOR/2016-188

Test Method : Extraction with solvent, analysed by Gas Chromatography Mass Spectrometer.

Maximum Limit:	1 000 mg/kg (Each of all listed phthalates)
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Test Item(s)	Result		Unit	Conclusion
	Detected Analyte(s)	Conc.		
1	ND	ND	%	PASS
2 + 3 + 4	ND	ND	%	PASS
5 + 6 + 8	ND	ND	%	PASS
7	ND	ND	%	PASS
9 + 11 + 12	ND	ND	%	PASS
13 + 14 + 15	ND	ND	%	PASS
16 + 21	ND	ND	%	PASS
17 + 18 + 20	ND	ND	%	PASS
19	ND	ND	%	PASS
22 + 28 + 29	ND	ND	%	PASS
23 + 24 + 25	ND	ND	%	PASS
26 + 27	ND	ND	%	PASS
30 + 31 + 32	ND	ND	%	PASS
43	ND	ND	%	PASS
44 + 45 + 46	ND	ND	%	PASS
47 + 48 + 49	ND	ND	%	PASS
50 + 51 + 52	ND	ND	%	PASS
53 + 54 + 55	ND	ND	%	PASS
56 + 57 + 58	ND	ND	%	PASS
59 + 60 + 61	ND	ND	%	PASS
62 + 63 + 64	ND	ND	%	PASS

Note / Key: ND = Not Detected Conc. = Concentration
Detection Limit (%): Each 0.005 % = percentage

Remark:

- The list of phthalates is summarized in table of Appendix.

List of Phthalates Content In Toys And Child Care Articles - Canada Consumer Product Safety Act (CCPSA), S.C. 2010, C. 21, Phthalates Regulations SOR/2016-188

No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	DBP	84-74-2	4	DnOP	117-84-0
2	BBP	85-68-7	5	DINP	28553-12-0&68515-48-0
3	DEHP	117-81-7	6	DIDP	26761-40-0 &



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					68515-49-1
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Total Lead Content in Surface Coating Materials - Canada Consumer Product Safety Act (CCPSA), S.C. 2010, c. 21, Surface Coating Materials Regulations SOR/2016-193, Section 2(1)

Test Method : Digested with concentrated nitric acid and hydrogen peroxide by using microwave digestion system, analyzed by ICP-AES.

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result	
	-	-	-	1	16 + 21
Lead (Pb)	7439-92-1	mg/kg	<90	ND	ND
Conclusion	-	-	-	PASS	PASS

Note / Key :

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

% = percent

ND = Not detected

10 000 mg/kg = 1 %

Detection Limit (mg/kg) - 10

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 : The sample is digested with acid, then analyzed by ICP-OES .

Maximum Limit:	90mg/kg
-----------------------	----------------

Test Item(s)	Result	Unit	Conclusion
1	ND	mg/kg	PASS
2 + 3 + 4	ND	mg/kg	PASS
5 + 6 + 8	ND	mg/kg	PASS
7	ND	mg/kg	PASS
9 + 11 + 12	ND	mg/kg	PASS
13 + 14 + 15	ND	mg/kg	PASS
16 + 21	ND	mg/kg	PASS
17 + 18 + 20	ND	mg/kg	PASS
19	ND	mg/kg	PASS
22 + 28 + 29	ND	mg/kg	PASS
23 + 24 + 25	ND	mg/kg	PASS
26 + 27	ND	mg/kg	PASS
30 + 31 + 32	ND	mg/kg	PASS
33	ND	mg/kg	PASS
34	ND	mg/kg	PASS
35	ND	mg/kg	PASS
36	14.6	mg/kg	PASS
37	ND	mg/kg	PASS
38	ND	mg/kg	PASS
39	ND	mg/kg	PASS

40	ND	mg/kg	PASS
41	ND	mg/kg	PASS
42	ND	mg/kg	PASS
43	ND	mg/kg	PASS
44 + 45 + 46	ND	mg/kg	PASS
47 + 48 + 49	ND	mg/kg	PASS
50 + 51 + 52	ND	mg/kg	PASS
53 + 54 + 55	ND	mg/kg	PASS
56 + 57 + 58	ND	mg/kg	PASS
59 + 60 + 61	ND	mg/kg	PASS
62 + 63 + 64	ND	mg/kg	PASS

Note / Key :

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

% = percent

ND = Not detected

10 000 mg/kg = 1 %

Detection Limit (mg/kg) - 10

Total Lead Content in Surface Coating – United States Consumer Product Safety Improvement Act (CPSIA), Section 101(a)(2)

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

Parameter	Unit	MDL	Result		Maximum Allowable Limit
			1	16 + 21	
Lead (Pb)	mg/kg	10	ND	ND	90
Conclusion	-	-	PASS	PASS	-

Note / Key:

ND = Not Detected

MDL = Method Detection Limit

mg/kg = milligram per kilogram

Phthalates Content - Reference to California Proposition 65 List of Chemicals & As Client's requirement

Test Method : CPSC-CH-C1001-09.4

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
				1	2 + 3 + 4	5 + 6 + 8	7
Dibutyl phthalate (DBP)	84-74-2	%	<0.1	ND	ND	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	<0.1	ND	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	<0.1	ND	ND	ND	ND
Di-n-octyl phthalate (DNOP)	117-84-0	%	<0.1	ND	ND	ND	ND
Di-iso-nonyl phthalate (DINP)	28553-12-0&68515-48-	%	<0.1	ND	ND	ND	ND



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	0						
Di-iso-decyl phthalate (DIDP)	26761-40-0 & 68515-49-1	%	<0.1	ND	ND	ND	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	%	<0.1	ND	ND	ND	ND
Diisobutyl phthalate (DiBP)	84-69-5	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	9 + 11 + 12	13 + 14 + 15	16 + 21	17 + 18 + 20
Dibutyl phthalate (DBP)	84-74-2	%	<0.1	ND	ND	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	<0.1	ND	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	<0.1	ND	ND	ND	ND
Di-n-octyl phthalate (DNOP)	117-84-0	%	<0.1	ND	ND	ND	ND
Di-iso-nonyl phthalate (DINP)	28553-12-0 & 68515-48-0	%	<0.1	ND	ND	ND	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0 & 68515-49-1	%	<0.1	ND	ND	ND	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	%	<0.1	ND	ND	ND	ND
Diisobutyl phthalate (DiBP)	84-69-5	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	19	22 + 28 + 29	23 + 24 + 25	26 + 27
Dibutyl phthalate (DBP)	84-74-2	%	<0.1	ND	ND	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	<0.1	ND	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	<0.1	ND	ND	ND	ND
Di-n-octyl phthalate (DNOP)	117-84-0	%	<0.1	ND	ND	ND	ND
Di-iso-nonyl phthalate (DINP)	28553-12-0 & 68515-48-0	%	<0.1	ND	ND	ND	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0 & 68515-49-	%	<0.1	ND	ND	ND	ND



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	1						
Di-n-hexyl phthalate (DnHP)	84-75-3	%	<0.1	ND	ND	ND	ND
Diisobutyl phthalate (DiBP)	84-69-5	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	30 + 31 + 32	43	44 + 45 + 46	47 + 48 + 49
Dibutyl phthalate (DBP)	84-74-2	%	<0.1	ND	ND	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	<0.1	ND	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	<0.1	ND	ND	ND	ND
Di-n-octyl phthalate (DNOP)	117-84-0	%	<0.1	ND	ND	ND	ND
Di-iso-nonyl phthalate (DINP)	28553-12-0&68515-48-0	%	<0.1	ND	ND	ND	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0 & 68515-49-1	%	<0.1	ND	ND	ND	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	%	<0.1	ND	ND	ND	ND
Diisobutyl phthalate (DiBP)	84-69-5	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	50 + 51 + 52	53 + 54 + 55	56 + 57 + 58	59 + 60 + 61
Dibutyl phthalate (DBP)	84-74-2	%	<0.1	ND	ND	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	<0.1	ND	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	<0.1	ND	ND	ND	ND
Di-n-octyl phthalate (DNOP)	117-84-0	%	<0.1	ND	ND	ND	ND
Di-iso-nonyl phthalate (DINP)	28553-12-0&68515-48-0	%	<0.1	ND	ND	ND	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0 & 68515-49-1	%	<0.1	ND	ND	ND	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	%	<0.1	ND	ND	ND	ND

Diisobutyl phthalate (DiBP)	84-69-5	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result
	-	-	-	62 + 63 + 64
Dibutyl phthalate (DBP)	84-74-2	%	<0.1	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	<0.1	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	<0.1	ND
Di-n-octyl phthalate (DNOP)	117-84-0	%	<0.1	ND
Di-iso-nonyl phthalate (DINP)	28553-12-0 & 68515-48-0	%	<0.1	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0 & 68515-49-1	%	<0.1	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	%	<0.1	ND
Diisobutyl phthalate (DiBP)	84-69-5	%	<0.1	ND
Conclusion	-	-	-	PASS

Note / Key:

ND = Not Detected

Detection Limit (%): Each 0.005 % = percentage

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

Test Method : Metal: U.S. CPSC-CH-E1001-08.3
Non-metal: U.S. CPSC-CH-E1002-08.3.

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			2 + 3 + 4	5 + 6 + 8	7	9 + 11 + 12	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			13 + 14 + 15	17 + 18 + 20	19	22 + 28 + 29	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			23 + 24 + 25	26 + 27	30 + 31 + 32	33	



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Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			34	35	36	37	
Lead (Pb)	mg/kg	10	ND	ND	14.6	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			38	39	40	41	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			42	43	44 + 45 + 46	47 + 48 + 49	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			50 + 51 + 52	53 + 54 + 55	56 + 57 + 58	59 + 60 + 61	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result	Maximum Allowable Limit
			62 + 63 + 64	
Lead (Pb)	mg/kg	10	ND	100
Conclusion	-	-	PASS	-

Note / Key:

ND = Not Detected

mg/kg = milligram per kilogram

MDL = Method Detection Limit

Total Lead Content in Surface Coating- Reference to California Proposition 65 List of Chemicals & As Client's requirement

Test Method : U.S. CPSC-CH-E1003-09.1
The sample is digested with acid mixtures, then analyzed by ICP-OES.

Parameter	Unit	Result		Maximum Allowable Limit
		1	16 + 21	
Lead (Pb)	mg/kg	ND	ND	90
Conclusion	-	PASS	PASS	-

Note / Key:

ND = Not Detected

MDL = Method Detection Limit

mg/kg = milligram per kilogram

Detection Limit (mg/kg):10

Total Lead Content in Substrate - Reference to California Proposition 65 List of Chemicals & As Client's requirement

Test Method : U.S. CPSC-CH-E1001-08.3 or U.S. CPSC-CH-E1002-08.3
The sample is digested with acid mixtures, then analyzed by ICP-OES/AAS.

Parameter	Unit	Result				Maximum Allowable Limit
		2 + 3 + 4	5 + 6 + 8	7	9 + 11 + 12	
Lead (Pb)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result				Maximum Allowable Limit
		13 + 14 + 15	17 + 18 + 20	19	22 + 28 + 29	
Lead (Pb)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result				Maximum Allowable Limit
		23 + 24 + 25	26 + 27	30 + 31 + 32	33	
Lead (Pb)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result				Maximum Allowable Limit
		34	35	36	37	
Lead (Pb)	mg/kg	<10	<10	14.6	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result				Maximum Allowable Limit
		38	39	40	41	
Lead (Pb)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result				Maximum Allowable Limit
		42	43	44 + 45 + 46	47 + 48 + 49	
Lead (Pb)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result				Maximum Allowable Limit
		50 + 51 + 52	53 + 54 + 55	56 + 57 + 58	59 + 60 + 61	
Lead (Pb)	mg/kg	<10	<10	<10	<10	100



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Conclusion	-	PASS	PASS	PASS	PASS	-
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Parameter	Unit	Result	Maximum Allowable Limit
		62 + 63 + 64	
Lead (Pb)	mg/kg	<10	100
Conclusion	-	PASS	-

Note / Key:

mg/kg = milligram per kilogram

Detection Limit (mg/kg):10

ND = Not Detected

MDL = Method Detection Limit

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.

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

Maximum Limit:	90 mg/kg
----------------	----------

Test Item(s)	Result	Unit	Conclusion
1	ND	mg/kg	PASS
16 + 21	ND	mg/kg	PASS

Note / Key:

mg/kg = milligram per kilogram

Detection Limit (mg/kg):10

ND = Not Detected

MDL = Method Detection Limit

Total Lead Content in Surface Coating - Illinois Statutes, 410 ILCS 45 Lead Poisoning Prevention Act with Amendments up to Public Act 098-0690, Section 6(b)

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

Maximum Limit:	40mg/kg
----------------	---------

Test Item(s)	Result	Unit	Conclusion
1	ND	mg/kg	PASS
16 + 21	ND	mg/kg	PASS

Note / Key:

mg/kg = milligram per kilogram

Detection Limit (mg/kg):10

ND = Not Detected

MDL = Method Detection Limit

Total Lead Content in Substrate - Illinois Statutes, 410 ILCS 45 Lead Poisoning Prevention Act with Amendments up to Public Act 098-0690, Section 6(b)

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

Maximum Limit:	40mg/kg
----------------	---------

Test Item(s)	Result	Unit	Conclusion
2 + 3 + 4	ND	mg/kg	PASS
5 + 6 + 8	ND	mg/kg	PASS
7	ND	mg/kg	PASS
9 + 11 + 12	ND	mg/kg	PASS
13 + 14 + 15	ND	mg/kg	PASS
17 + 18 + 20	ND	mg/kg	PASS
19	ND	mg/kg	PASS
22 + 28 + 29	ND	mg/kg	PASS
23 + 24 + 25	ND	mg/kg	PASS
26 + 27	ND	mg/kg	PASS
30 + 31 + 32	ND	mg/kg	PASS
33	ND	mg/kg	PASS
34	ND	mg/kg	PASS
35	ND	mg/kg	PASS
36	14.6	mg/kg	PASS
37	ND	mg/kg	PASS
38	ND	mg/kg	PASS
39	ND	mg/kg	PASS
40	ND	mg/kg	PASS
41	ND	mg/kg	PASS
42	ND	mg/kg	PASS
43	ND	mg/kg	PASS
44 + 45 + 46	ND	mg/kg	PASS
47 + 48 + 49	ND	mg/kg	PASS
50 + 51 + 52	ND	mg/kg	PASS
53 + 54 + 55	ND	mg/kg	PASS
56 + 57 + 58	ND	mg/kg	PASS
59 + 60 + 61	ND	mg/kg	PASS
62 + 63 + 64	ND	mg/kg	PASS

Note / Key:

mg/kg = milligram per kilogram

Detection Limit (mg/kg):10

ND = Not Detected

MDL = Method Detection Limit

Total lead content

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

Parameter	Unit	Result				Maximum Allowable Limit
		1	2 + 3 + 4	5 + 6 + 8	7	
Lead (Pb)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result				Maximum Allowable
		9 + 11 + 12	13 + 14 + 15	16 + 21	17 + 18 + 20	



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						Limit
Lead (Pb)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result				Maximum Allowable Limit
		19	22 + 28 + 29	23 + 24 + 25	26 + 27	
Lead (Pb)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result				Maximum Allowable Limit
		30 + 31 + 32	33	34	35	
Lead (Pb)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result				Maximum Allowable Limit
		36	37	38	39	
Lead (Pb)	mg/kg	14.6	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result				Maximum Allowable Limit
		40	41	42	43	
Lead (Pb)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result				Maximum Allowable Limit
		44 + 45 + 46	47 + 48 + 49	50 + 51 + 52	53 + 54 + 55	
Lead (Pb)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result			Maximum Allowable Limit
		56 + 57 + 58	59 + 60 + 61	62 + 63 + 64	
Lead (Pb)	mg/kg	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	-

Note / Key:

ND = Not Detected

MDL = Method Detection Limit

mg/kg = milligram per kilogram

Detection Limit(mg/kg): 10

Total Cadmium Content - Washington CSPA RCW Chapter 70A.430.020)

Test Method : Digested with acid mixtures, then analyzed by AAS technique or ICP-OES .

Parameter	Unit	MDL	Result	Maximum
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			1	2 + 3 + 4	5 + 6 + 8	7	Allowable Limit
Cadmium (Cd)	mg/kg	5	ND	ND	ND	ND	40
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			9 + 11 + 12	13 + 14 + 15	16 + 21	17 + 18 + 20	
Cadmium (Cd)	mg/kg	5	ND	ND	ND	ND	40
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			19	22 + 28 + 29	23 + 24 + 25	26 + 27	
Cadmium (Cd)	mg/kg	5	ND	ND	ND	ND	40
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			30 + 31 + 32	33	34	35	
Cadmium (Cd)	mg/kg	5	ND	ND	ND	ND	40
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			36	37	38	39	
Cadmium (Cd)	mg/kg	5	ND	ND	ND	ND	40
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			40	41	42	43	
Cadmium (Cd)	mg/kg	5	ND	ND	ND	ND	40
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			44 + 45 + 46	47 + 48 + 49	50 + 51 + 52	53 + 54 + 55	
Cadmium (Cd)	mg/kg	5	ND	ND	ND	ND	40
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result			Maximum Allowable Limit
			56 + 57 + 58	59 + 60 + 61	62 + 63 + 64	
Cadmium (Cd)	mg/kg	5	ND	ND	ND	40
Conclusion	-	-	PASS	PASS	PASS	-

Note / Key:

ND = Not Detected

MDL = Method Detection Limit

mg/kg = milligram per kilogram

Phthalates Content- ASTM International Standard ASTM F963-23, Section 4.3.8 for Phthalates

Test Method : Extraction with solvent, analysed by Gas Chromatography Mass Spectrometer.

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	1	2 + 3 + 4	5 + 6 + 8	7
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0 0&68515-48-0	%	<0.1	ND	ND	ND	ND
DIBP	84-69-5	%	<0.1	ND	ND	ND	ND
DEHP	117-81-7	%	<0.1	ND	ND	ND	ND
DPENP/DPP	131-18-0	%	<0.1	ND	ND	ND	ND
DCHP	84-61-7	%	<0.1	ND	ND	ND	ND
DHEXP	84-75-3	%	<0.1	ND	ND	ND	ND
DBP	84-74-2	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	9 + 11 + 12	13 + 14 + 15	16 + 21	17 + 18 + 20
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0 0&68515-48-0	%	<0.1	ND	ND	ND	ND
DIBP	84-69-5	%	<0.1	ND	ND	ND	ND
DEHP	117-81-7	%	<0.1	ND	ND	ND	ND
DPENP/DPP	131-18-0	%	<0.1	ND	ND	ND	ND
DCHP	84-61-7	%	<0.1	ND	ND	ND	ND
DHEXP	84-75-3	%	<0.1	ND	ND	ND	ND
DBP	84-74-2	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	19	22 + 28 + 29	23 + 24 + 25	26 + 27
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0 0&68515-48-0	%	<0.1	ND	ND	ND	ND



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DIBP	84-69-5	%	<0.1	ND	ND	ND	ND
DEHP	117-81-7	%	<0.1	ND	ND	ND	ND
DPENP/DPP	131-18-0	%	<0.1	ND	ND	ND	ND
DCHP	84-61-7	%	<0.1	ND	ND	ND	ND
DHEXP	84-75-3	%	<0.1	ND	ND	ND	ND
DBP	84-74-2	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	30 + 31 + 32	43	44 + 45 + 46	47 + 48 + 49
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0 0&68515-48-0	%	<0.1	ND	ND	ND	ND
DIBP	84-69-5	%	<0.1	ND	ND	ND	ND
DEHP	117-81-7	%	<0.1	ND	ND	ND	ND
DPENP/DPP	131-18-0	%	<0.1	ND	ND	ND	ND
DCHP	84-61-7	%	<0.1	ND	ND	ND	ND
DHEXP	84-75-3	%	<0.1	ND	ND	ND	ND
DBP	84-74-2	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	50 + 51 + 52	53 + 54 + 55	56 + 57 + 58	59 + 60 + 61
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0 0&68515-48-0	%	<0.1	ND	ND	ND	ND
DIBP	84-69-5	%	<0.1	ND	ND	ND	ND
DEHP	117-81-7	%	<0.1	ND	ND	ND	ND
DPENP/DPP	131-18-0	%	<0.1	ND	ND	ND	ND
DCHP	84-61-7	%	<0.1	ND	ND	ND	ND
DHEXP	84-75-3	%	<0.1	ND	ND	ND	ND
DBP	84-74-2	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result
	-	-	-	62 + 63 + 64
BBP	85-68-7	%	<0.1	ND



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DINP	28553-12-0&68515-48-0	%	<0.1	ND
DIBP	84-69-5	%	<0.1	ND
DEHP	117-81-7	%	<0.1	ND
DPENP/DPP	131-18-0	%	<0.1	ND
DCHP	84-61-7	%	<0.1	ND
DHEXP	84-75-3	%	<0.1	ND
DBP	84-74-2	%	<0.1	ND
Conclusion	-	-	-	PASS

< = Less

Detection Limit (%): Each 0.005 % = percentage

Test Method:ASTM International Standard ASTM F963-23, Section 8.3.2 to 8.3.4;ASTM International Standard ASTM F963-23, Section 8.3.5 (Excluding 8.3.5.5(3)).

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	
Limit:	25	1000	75	60	60	90	60	500	
(mg/kg)									

[illegible]



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25	ND	ND	ND	ND	ND	ND	ND	ND	PASS
26	ND	ND	ND	ND	ND	ND	ND	ND	PASS
27	ND	ND	ND	ND	ND	ND	ND	ND	PASS
28	ND	ND	ND	ND	ND	ND	ND	ND	PASS
29	ND	ND	ND	ND	ND	ND	ND	ND	PASS
30	ND	ND	ND	ND	ND	ND	ND	ND	PASS
31	ND	ND	ND	ND	ND	ND	ND	ND	PASS
32	ND	ND	ND	ND	ND	ND	ND	ND	PASS
43	ND	ND	ND	ND	ND	ND	ND	ND	PASS
44	ND	ND	ND	ND	ND	ND	ND	ND	PASS
45	ND	ND	ND	ND	ND	ND	ND	ND	PASS
46	ND	ND	ND	ND	ND	ND	ND	ND	PASS
47	ND	ND	ND	ND	ND	ND	ND	ND	PASS
48	ND	ND	ND	ND	ND	ND	ND	ND	PASS
49	ND	ND	ND	ND	ND	ND	ND	ND	PASS
50	ND	ND	ND	ND	ND	ND	ND	ND	PASS
51	ND	ND	ND	ND	ND	ND	ND	ND	PASS
52	ND	ND	ND	ND	ND	ND	ND	ND	PASS
53	ND	ND	ND	ND	ND	ND	ND	ND	PASS
54	ND	ND	ND	ND	ND	ND	ND	ND	PASS
55	ND	ND	ND	ND	ND	ND	ND	ND	PASS
56	ND	ND	ND	ND	ND	ND	ND	ND	PASS
57	ND	ND	ND	ND	ND	ND	ND	ND	PASS
58	ND	ND	ND	ND	ND	ND	ND	ND	PASS
59	ND	ND	ND	ND	ND	ND	ND	ND	PASS
60	ND	ND	ND	ND	ND	ND	ND	ND	PASS
61	ND	ND	ND	ND	ND	ND	ND	ND	PASS
62	ND	ND	ND	ND	ND	ND	ND	ND	PASS
63	ND	ND	ND	ND	ND	ND	ND	ND	PASS
64	ND	ND	ND	ND	ND	ND	ND	ND	PASS

Note / Key :

< = Less Than

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

Sb = Antimony, Se = Selenium

mg/kg = milligrams per kilogram

Detection Limit (mg/kg) : As:2.5,Others:5

Cr = Chromium, Hg = Mercury, Pb = Lead,

Total Lead in Surface Coating - ASTM International Standard ASTM F963-23, Section 4.3.5.1(1) for Total Lead Content in Surface Coating

Test Method : ASTM International Standard ASTM F963-23, Section 8.3.1.1 and CPSC-CH-E1003-09.1
Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coating

Parameter	Unit	MDL	Result		Maximum Allowable Limit
			1	16 + 21	
Lead (Pb)	mg/kg	10	ND	ND	90
Conclusion	-	-	PASS	PASS	-



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Note / Key:

ND = Not Detected

mg/kg = milligram per kilogram

MDL = Method Detection Limit

Soluble Heavy Metals Content in Surface Coating - ASTM International Standard ASTM F963-23, Section 4.3.5.1(2)

Test Method:ASTM International Standard ASTM F963-23, Section 8.3.2 to 8.3.4;ASTM International Standard ASTM F963-23, Section 8.3.5 (Excluding 8.3.5.5(3)).

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	
Limit:	25	1000	75	60	60	90	60	500	
(mg/kg)									

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Conclusion
Sample	Result (mg/kg)								
1	ND	ND	ND	ND	ND	ND	ND	ND	PASS

Note / Key : mg/kg = milligrams per kilogram

< = Less Than

Detection Limit (mg/kg) : As:2.5,Others:5

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

Cr = Chromium, Hg = Mercury, Pb = Lead,

Sb = Antimony, Se = Selenium

For component (16/21), The received sample(s) contained accessible material(s) of less than 10 milligrams by weight on one single sample, therefore such material(s) was not subject to the heavy metals analysis of ASTM F963-23,

“Standard consumer safety specification on toy safety” , Section 4.3.5.1(b) and 4.3.5.2, as specified in Section 8.3.3.6(2) and Section 8.3.5.3(2).

Total Lead in Substrate Material - ASTM International Standard ASTM F963-23, Section 4.3.5.2(1) for Total Lead Content in Substrate Material

Test Method : non-metal: ASTM International Standard ASTM F963-23, Section 8.3.1.1 and CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Lead (Pb) In Non-metal Children's Products
metal: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Lead (Pb) In Metal Children's Products

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			2 + 3 + 4	5 + 6 + 8	7	9 + 11 + 12	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			13 + 14 + 15	17 + 18 + 20	19	22 + 28 + 29	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			23 + 24 + 25	26 + 27	30 + 31 + 32	33	



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Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			34	35	36	37	
Lead (Pb)	mg/kg	10	ND	ND	14.6	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			38	39	40	41	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			42	43	44 + 45 + 46	47 + 48 + 49	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			50 + 51 + 52	53 + 54 + 55	56 + 57 + 58	59 + 60 + 61	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result	Maximum Allowable Limit
			62 + 63 + 64	
Lead (Pb)	mg/kg	10	ND	100
Conclusion	-	-	PASS	-

Note / Key:

ND = Not Detected

MDL = Method Detection Limit

mg/kg = milligram per kilogram

Washington Revised Code Section 70.240.020, Phthalates in Children's Product

Test Method : CPSC-CH-C1001-09.4
Gas Chromatography Mass Spectrometer

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	1	2 + 3 + 4	5 + 6 + 8	7
Dibutyl phthalate (DBP)	84-74-2	%	<0.1	ND	ND	ND	ND
Butylbenzylphthalate (BBP)	85-68-7	%	<0.1	ND	ND	ND	ND



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Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	<0.1	ND	ND	ND	ND
Di-n-octyl phthalate (DNOP)	117-84-0	%	<0.1	ND	ND	ND	ND
di-isononyl phthalate	28553-12-0 / 68515-48-0	%	<0.1	ND	ND	ND	ND
di-iso-decyl phthalate	26761-40-0 / 68515-49-1	%	<0.1	ND	ND	ND	ND
Sum	--	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	9 + 11 + 12	13 + 14 + 15	16 + 21	17 + 18 + 20
Dibutyl phthalate (DBP)	84-74-2	%	<0.1	ND	ND	ND	ND
Butylbenzylphthalate (BBP)	85-68-7	%	<0.1	ND	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	<0.1	ND	ND	ND	ND
Di-n-octyl phthalate (DNOP)	117-84-0	%	<0.1	ND	ND	ND	ND
di-isononyl phthalate	28553-12-0 / 68515-48-0	%	<0.1	ND	ND	ND	ND
di-iso-decyl phthalate	26761-40-0 / 68515-49-1	%	<0.1	ND	ND	ND	ND
Sum	--	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	19	22 + 28 + 29	23 + 24 + 25	26 + 27
Dibutyl phthalate (DBP)	84-74-2	%	<0.1	ND	ND	ND	ND
Butylbenzylphthalate (BBP)	85-68-7	%	<0.1	ND	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	<0.1	ND	ND	ND	ND
Di-n-octyl phthalate (DNOP)	117-84-0	%	<0.1	ND	ND	ND	ND
di-isononyl phthalate	28553-12-0 / 68515-48-0	%	<0.1	ND	ND	ND	ND
di-iso-decyl phthalate	26761-40-0 / 68515-49-1	%	<0.1	ND	ND	ND	ND
Sum	--	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum	Result
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			Allowable Limit				
	-	-	-	30 + 31 + 32	43	44 + 45 + 46	47 + 48 + 49
Dibutyl phthalate (DBP)	84-74-2	%	<0.1	ND	ND	ND	ND
Butylbenzylphthalate (BBP)	85-68-7	%	<0.1	ND	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	<0.1	ND	ND	ND	ND
Di-n-octyl phthalate (DNOP)	117-84-0	%	<0.1	ND	ND	ND	ND
di-isononyl phthalate	28553-12-0 / 68515-48-0	%	<0.1	ND	ND	ND	ND
di-iso-decyl phthalate	26761-40-0 / 68515-49-1	%	<0.1	ND	ND	ND	ND
Sum	--	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	50 + 51 + 52	53 + 54 + 55	56 + 57 + 58	59 + 60 + 61
Dibutyl phthalate (DBP)	84-74-2	%	<0.1	ND	ND	ND	ND
Butylbenzylphthalate (BBP)	85-68-7	%	<0.1	ND	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	<0.1	ND	ND	ND	ND
Di-n-octyl phthalate (DNOP)	117-84-0	%	<0.1	ND	ND	ND	ND
di-isononyl phthalate	28553-12-0 / 68515-48-0	%	<0.1	ND	ND	ND	ND
di-iso-decyl phthalate	26761-40-0 / 68515-49-1	%	<0.1	ND	ND	ND	ND
Sum	--	%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result
	-	-	-	62 + 63 + 64
Dibutyl phthalate (DBP)	84-74-2	%	<0.1	ND
Butylbenzylphthalate (BBP)	85-68-7	%	<0.1	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	<0.1	ND
Di-n-octyl phthalate (DNOP)	117-84-0	%	<0.1	ND
di-isononyl phthalate	28553-12-0 / 68515-48-0	%	<0.1	ND



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di-iso-decyl phthalate	26761-40-0 / 68515-49-1	%	<0.1	ND
Sum	--	%	<0.1	ND
Conclusion	-	-	-	PASS

Note / Key:

ND = Not Detected

Detection Limit (%): Each 0.005 % = percentage

List of Washington Revised Code Section 70.240.020, Phthalates In Children's Product					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Dibutyl phthalate (DBP)	84-74-2	4	Di-n-octyl phthalate (DNOP)	117-84-0
2	Butylbenzylphthalate (BBP)	85-68-7	5	di-isononyl phthalate	28553-12-0 / 68515-48-0
3	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	6	di-iso-decyl phthalate	26761-40-0 / 68515-49-1



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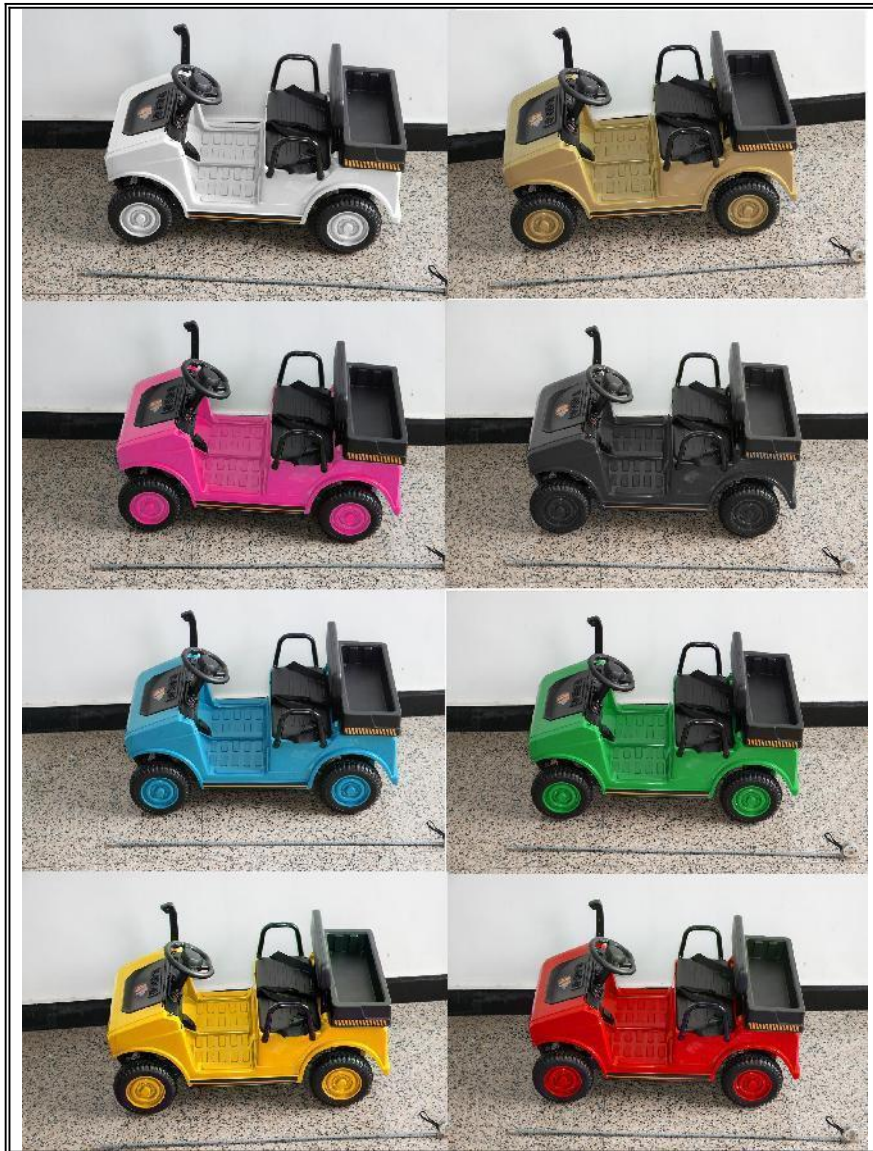
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