TEST REPORT

PINGHU LITTLE STAR TOYS CO.,LTD

Technical Report: **(3226)156-0384** Aug.10, 2026

Date of Received: Jun.05, 2026

Test period: Jun.05, 2026~Aug.10, 2026

PINGHU LITTLE STAR TOYS CO.,LTD
NO.1888 CANGDONG ROAD,XINCANG TOWN,PINGHU CITY,
ZHEJIANG,CHINA

SAMPLE INFORMATION:

Sample Description:	RIDE ON CAR	**Sample Quantity:**	5PCS
Vendor:	N/A	**Style No(s):**	XMX669
Manufacturer:	N/A	**SKN/SKU No.:**	N/A
Buyer:	N/A	**PO No.:**	N/A
Labeled Age Grade:	6+	**Ref #:**	N/A
Appropriate Age Grade:	OVER 6 YEARS OF AGE	**Country of Origin:**	CHINA
Client Specified Age Grade:	N/A	**Assortment No.:**	N/A
Tested Age Grade:	OVER 6 YEARS OF AGE	**Country of Destination:**	USA,CANADA
UPC Code:	N/A	**Color :**	N/A

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
Phthalates Content - Reference to California Proposition 65 List of Chemicals & As Client’s requirement	PASS
Heavy Metals Content in Surface Coating - Canada Consumer Product Safety Act (CCPSA), S.C. 2010, c. 21, Toys Regulations SOR/2011-17 with its Latest Amendment, Section 23	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
U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 and 15 U.S. Code § 1278a for total Lead content in surface coating	PASS
U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 and 15 U.S. Code § 1278a for total Lead content in non-surface coating materials (substrate)	PASS
Total Lead Content in Surface Coating- Reference to California Proposition 65 List of Chemicals & As Client’s requirement	PASS

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

Note:
1.The sample is tested as "Over 6 years of age" .
2.As Requested By Client, The Test Components (1) Grey plastic, (2) Black plastic, (3)Deep grey foam, (4)Black frosted plastic, (5)Red plastic, (6)Deep grey plastic, (7)Black foam, (8)Blue plastic, (9)Black plastic, (10)White plastic, (11)Snow plastic, (12)Transparent soft plastic, (13)Black soft plastic, (14)Red soft plastic, (15)Black soft plastic, (16)Black soft plastic with white print, (17)Bright black plastic, (18)Black plastic, (19)Black plastic, (20)Transparent plastic, (21)Multicolor soft plastic with adhesive, (22)Black tape, (23)White coating, (24)Black coating, (25)Blue coating, (26)Silver metal with light blue plating, (27)Silver metal with light blue plating, (28)Silver metal with light blue plating, (29)Silver metal with light blue plating, (30)Silver metal, (31)Silver metal, (32)Silver metal, (33)Silver metal, (34)Silver metal, (35)Silver metal, (36)Black metal, (37)Black metal, (38)Black metal, (39)Blue metal, (40)Green plastic, (41)Pink plastic, (42)Grey plastic, (43)Green coating, (44)Pink coating were Not Conducted In This Report. Client Claimed These Components Have Been Tested In Our Test Report (3226)156-0380 Dated July 29, 2026.

BVCPS (ZHEJIANG) GENERAL CONTACT INFORMATION FOR THIS REPORT

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

Seb wang
LAB Manager
(HARDLINE AND TOY DIVISION)

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 (Sec1500.53(e))	PASS	PASS	NA
Tension (Sec1500.53(f))	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	N/A
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	*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	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	N/A
6.6	Battery-Powered Ride-On Toys	M
6.7	Toys in Contact with Food	N/A
6.8	*Toy Chests*	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	*Toy Chests*	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

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 (NO.1888 CANGDONG ROAD,XINCANG TOWN,PINGHU CITY,ZHEJIANG,CHINA)
Date of production (month and year)	M (2026.06)
Manufacturer or private labeler	M (PINGHU LITTLE STAR TOYS CO.,LTD)

Requirements	Present on products
Present on product	M
Permanent	M
Location of production (City and country)	M (NO.1888 CANGDONG ROAD,XINCANG TOWN,PINGHU CITY,ZHEJIANG,CHINA)
Date of production (month and year)	M (2026.06)
Manufacturer or private labeler	M (PINGHU LITTLE STAR TOYS CO.,LTD)

M = Meet NM = Not Meet NT=Not Test

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Power source: Lead-Acid Battery: DC 36V, NO REMOTE

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.	NA
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.	NA
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.	NA

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.	NA
	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.**	NA
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 batterypowered 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

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 test	10 lbs

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

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

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

Section	Parameter / Requirement	Result
40(a)	Rattles – Sharp wire	NA
40(b, c)	Rattles – Impaction	NA
41	Elastic	NA
42	Yo-Yo type balls	NA
43	Magnetic force	NA
44	Educational experimental kit - Labeling	NA

CANADA CONSUMER PRODUCT SAFETY ACT, SCHEDULE 2

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

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

ELECTRICAL HAZARDS

TOY REGULATIONS SOR/2011-17 SECTION 5 AND 6

Requirement Reference	Observation	Flammability Classification
Section 5	Electrically operated toys	NR
Section 6	Electrically heated toys	NA

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

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

Tested Component(s) Breakdown List

Test Item	Description	Location	Style
1	Grey plastic	Seat	-
2	Black plastic	Body	-
3	Deep grey foam	On seat	-
4	Black frosted plastic	Steering wheel	-
5	Red plastic	Switch	-
6	Deep grey plastic	On usb	-
7	Black foam	Wheel	-
8	Blue plastic	Wheel hub	-
9	Black plastic	Pedal	-
10	White plastic	Head lamp	-
11	Snow plastic	Axle	-
12	Transparent soft plastic	On spring	-
13	Black soft plastic	Wire jacket	-
14	Red soft plastic	Wire jacket	-
15	Black soft plastic	Sleeve	-
16	Black soft plastic with white print	Wire jacket	-
17	Bright black plastic	Button	-
18	Black plastic	Big plug	-
19	Black plastic	Small plug	-
20	Transparent plastic	Plug lamp	-
21	Multicolor soft plastic with adhesive	Sticker	-
22	Black tape	-	-
23	White coating	On button	-
24	Black coating	On metal	-
25	Blue coating	On metal	-
26	Silver metal with light blue plating	Screw	-
27	Silver metal with light blue plating	Gasket screw	-
28	Silver metal with light blue plating	Nut	-
29	Silver metal with light blue plating	Bolt	-
30	Silver metal	Nut	-
31	Silver metal	Tube	-
32	Silver metal	Gasket	-
33	Silver metal	Big plug	-
34	Silver metal	Small plug	-
35	Silver metal	Engine	-
36	Black metal	Tube	-
37	Black metal	Screw	-
38	Black metal	Bolt	-
39	Blue metal	Tube	-
40	Green plastic	Wheel hub	-

41	Pink plastic	Wheel hub	-
42	Grey plastic	Wheel hub	-
43	Green coating	on tube	-
44	Pink coating	on tube	-
45	Black plastic	Plugin	-

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 + 4	3 + 7	5 + 6 + 8	9 + 10 + 11
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**			
	-	-	-	12 + 13 + 14	15 + 16 + 17	18 + 19 + 20	21
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**			
	-	-	-	23	24 + 25	40 + 41 + 42	43 + 44
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**
	-	-	-	45
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

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 + 4	3 + 7	5 + 6 + 8	9 + 10 + 11
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**			
	-	-	-	12 + 13 + 14	15 + 16 + 17	18 + 19 + 20	21
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**	**Result**

			Limit				
	-	-	-	23	24 + 25	40 + 41 + 42	43 + 44
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
	-	-	-	45
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
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)**

Test Item(s)	**Result**		**Unit**	**Conclusion**
	Detected Analyte(s)	**Conc.**		
1 + 2 + 4	ND	ND	%	PASS
3 + 7	ND	ND	%	PASS
5 + 6 + 8	ND	ND	%	PASS
9 + 10 + 11	ND	ND	%	PASS
12 + 13 + 14	ND	ND	%	PASS
15 + 16 + 17	ND	ND	%	PASS
18 + 19 + 20	ND	ND	%	PASS
21	ND	ND	%	PASS
23	ND	ND	%	PASS
24 + 25	ND	ND	%	PASS
40 + 41 + 42	ND	ND	%	PASS
43 + 44	ND	ND	%	PASS
45	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 & 68515-49-1

Heavy Metals Content in Surface Coating - Canada Consumer Product Safety Act (CCPSA), S.C. 2010, c. 21, Toys Regulations SOR/2011-17 with its Latest Amendment, Section 23

Test Method : CCPSA,SOR/2011-17,Section 23

Parameter	Unit	Result			Maximum Allowable Limit
		23	24 + 25	43 + 44	
Total Lead	mg/kg	ND	ND	ND	90
Total Mercury	mg/kg	ND	ND	ND	10
Conclusion	-	PASS	PASS	PASS	-

Parameter	Unit	Result				Maximum Allowable Limit
		23	24	25	43	
Soluble Arsenic	mg/kg	ND	ND	ND	ND	1000
Soluble Barium	mg/kg	ND	ND	ND	ND	1000
Soluble Cadmium	mg/kg	ND	ND	ND	ND	1000
Soluble Antimony	mg/kg	ND	ND	ND	ND	1000
Soluble Selenium	mg/kg	ND	ND	ND	ND	1000
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	Result	Maximum Allowable Limit
		44	
Soluble Arsenic	mg/kg	ND	1000
Soluble Barium	mg/kg	ND	1000
Soluble Cadmium	mg/kg	ND	1000
Soluble Antimony	mg/kg	ND	1000
Soluble Selenium	mg/kg	ND	1000
Conclusion	-	PASS	-

Note / Key :

ND = Not detected
Total metal(s) content analysis - Pb : 10; Hg : 10;

mg/kg = milligram(s) per kilogram = ppm = part(s) per million
Detection Limit (mg/kg) :
Soluble metal(s) content analysis - Sb : 30; As : 20; Cd : 10; Se : 50; Ba : 50

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 + 2 + 4	ND	mg/kg	PASS
3 + 7	ND	mg/kg	PASS
5 + 6 + 8	ND	mg/kg	PASS
9 + 10 + 11	ND	mg/kg	PASS
12 + 13 + 14	ND	mg/kg	PASS
15 + 16 + 17	ND	mg/kg	PASS
18 + 19 + 20	ND	mg/kg	PASS
21	ND	mg/kg	PASS
23	ND	mg/kg	PASS
24 + 25	ND	mg/kg	PASS
26	ND	mg/kg	PASS
27	ND	mg/kg	PASS
28	ND	mg/kg	PASS
29	ND	mg/kg	PASS
30	ND	mg/kg	PASS
31	ND	mg/kg	PASS
32	ND	mg/kg	PASS
33	35.5	mg/kg	PASS
34	88.8	mg/kg	PASS
35	ND	mg/kg	PASS
36	ND	mg/kg	PASS
37	ND	mg/kg	PASS
38	ND	mg/kg	PASS
39	ND	mg/kg	PASS
40 + 41 + 42	ND	mg/kg	PASS
43 + 44	ND	mg/kg	PASS
45	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
			23	24 + 25	43 + 44	
Lead (Pb)	mg/kg	10	ND	ND	ND	90
Conclusion	-	-	PASS	PASS	PASS	-

Note / Key:
ND = Not Detected
mg/kg = milligram per kilogram
MDL = Method Detection Limit

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
			1 + 2 + 4	3 + 7	5 + 6 + 8	9 + 10 + 11	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			12 + 13 + 14	15 + 16 + 17	18 + 19 + 20	21	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			26	27	28	29	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			30	31	32	33	
Lead (Pb)	mg/kg	10	ND	ND	ND	35.5	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result				Maximum Allowable Limit
			34	35	36	37	

Lead (Pb)	mg/kg	10	88.8	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	**Unit**	**MDL**	**Result**				**Maximum Allowable Limit**
			38	39	40 + 41 + 42	45	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	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**
		23	24 + 25	43 + 44	
Lead (Pb)	mg/kg	ND	ND	ND	90
Conclusion	-	PASS	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**
		1 + 2 + 4	3 + 7	5 + 6 + 8	9 + 10 + 11	
Lead (Pb)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	**Unit**	**Result**				**Maximum Allowable Limit**
		12 + 13 + 14	15 + 16 + 17	18 + 19 + 20	21	
Lead (Pb)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	**Unit**	**Result**	**Maximum**

		26	27	28	29	**Allowable Limit**
Lead (Pb)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	**Unit**	**Result**				**Maximum Allowable Limit**
		30	31	32	33	
Lead (Pb)	mg/kg	<10	<10	<10	35.5	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	**Unit**	**Result**				**Maximum Allowable Limit**
		34	35	36	37	
Lead (Pb)	mg/kg	88.8	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	**Unit**	**Result**				**Maximum Allowable Limit**
		38	39	40 + 41 + 42	45	
Lead (Pb)	mg/kg	<10	<10	<10	<10	100
Conclusion	-	PASS	PASS	PASS	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**
23	ND	mg/kg	PASS
24 + 25	ND	mg/kg	PASS
43 + 44	ND	mg/kg	PASS

Note / Key:
mg/kg = milligram per kilogram
Detection Limit (mg/kg):10

ND = Not Detected
MDL = Method Detection Limit

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 + 4	3 + 7	5 + 6 + 8	9 + 10 + 11
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0&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			
	-	-	-	12 + 13 + 14	15 + 16 + 17	18 + 19 + 20	21
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0&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			
	-	-	-	23	24 + 25	40 + 41 + 42	43 + 44
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0&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**
	-	-	-	45
BBP	85-68-7	%	<0.1	ND
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

Note / Key: ND = Not Detected < = Less than
Detection Limit (%): Each 0.005 % = percentage

Soluble Heavy Metals Content in Substrate - ASTM International Standard ASTM F963-23, Section 4.3.5.2(2)(b)

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: (mg/kg)	25	1000	75	60	60	90	60	500	

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Conclusion
Sample	Result (mg/kg)								
1	ND	ND	ND	ND	ND	ND	ND	ND	PASS
2	ND	ND	ND	ND	ND	ND	ND	ND	PASS
3	ND	ND	ND	ND	ND	ND	ND	ND	PASS
4	ND	ND	ND	ND	ND	ND	ND	ND	PASS
5	ND	ND	ND	ND	ND	ND	ND	ND	PASS
6	ND	ND	ND	ND	ND	ND	ND	ND	PASS
7	ND	ND	ND	ND	ND	ND	ND	ND	PASS
8	ND	ND	ND	ND	ND	ND	ND	ND	PASS
9	ND	ND	ND	ND	ND	ND	ND	ND	PASS

10	ND	ND	ND	ND	ND	ND	ND	ND	PASS
11	ND	ND	ND	ND	ND	ND	ND	ND	PASS
12	ND	ND	ND	ND	ND	ND	ND	ND	PASS
13	ND	ND	ND	ND	ND	ND	ND	ND	PASS
14	ND	ND	ND	ND	ND	ND	ND	ND	PASS
15	ND	ND	ND	ND	ND	ND	ND	ND	PASS
16	ND	ND	ND	ND	ND	ND	ND	ND	PASS
17	ND	ND	ND	ND	ND	ND	ND	ND	PASS
18	ND	ND	ND	ND	ND	ND	ND	ND	PASS
19	ND	ND	ND	ND	ND	ND	ND	ND	PASS
20	ND	ND	ND	ND	ND	ND	ND	ND	PASS
21	ND	ND	ND	ND	ND	ND	ND	ND	PASS
22	ND	ND	ND	ND	ND	ND	ND	ND	PASS
40	ND	ND	ND	ND	ND	ND	ND	ND	PASS
41	ND	ND	ND	ND	ND	ND	ND	ND	PASS
42	ND	ND	ND	ND	ND	ND	ND	ND	PASS
45	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**
			23	24 + 25	43 + 44	
Lead (Pb)	mg/kg	10	ND	ND	ND	90
Conclusion	-	-	PASS	PASS	PASS	-

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: (mg/kg)	25	1000	75	60	60	90	60	500	

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Conclusion
Sample	Result (mg/kg)								
23	ND	ND	ND	ND	ND	ND	ND	ND	PASS
24	ND	ND	ND	ND	ND	ND	ND	ND	PASS
25	ND	ND	ND	ND	ND	ND	ND	ND	PASS
43	ND	141	ND	ND	ND	ND	ND	ND	PASS
44	ND	48.8	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

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**
			1 + 2 + 4	3 + 7	5 + 6 + 8	9 + 10 + 11	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	**Unit**	**MDL**	**Result**				**Maximum Allowable Limit**
			12 + 13 + 14	15 + 16 + 17	18 + 19 + 20	21	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	**Unit**	**MDL**	**Result**				**Maximum Allowable Limit**
			26	27	28	29	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100

Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	**Unit**	**MDL**	**Result**				**Maximum Allowable Limit**
			30	31	32	33	
Lead (Pb)	mg/kg	10	ND	ND	ND	35.5	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

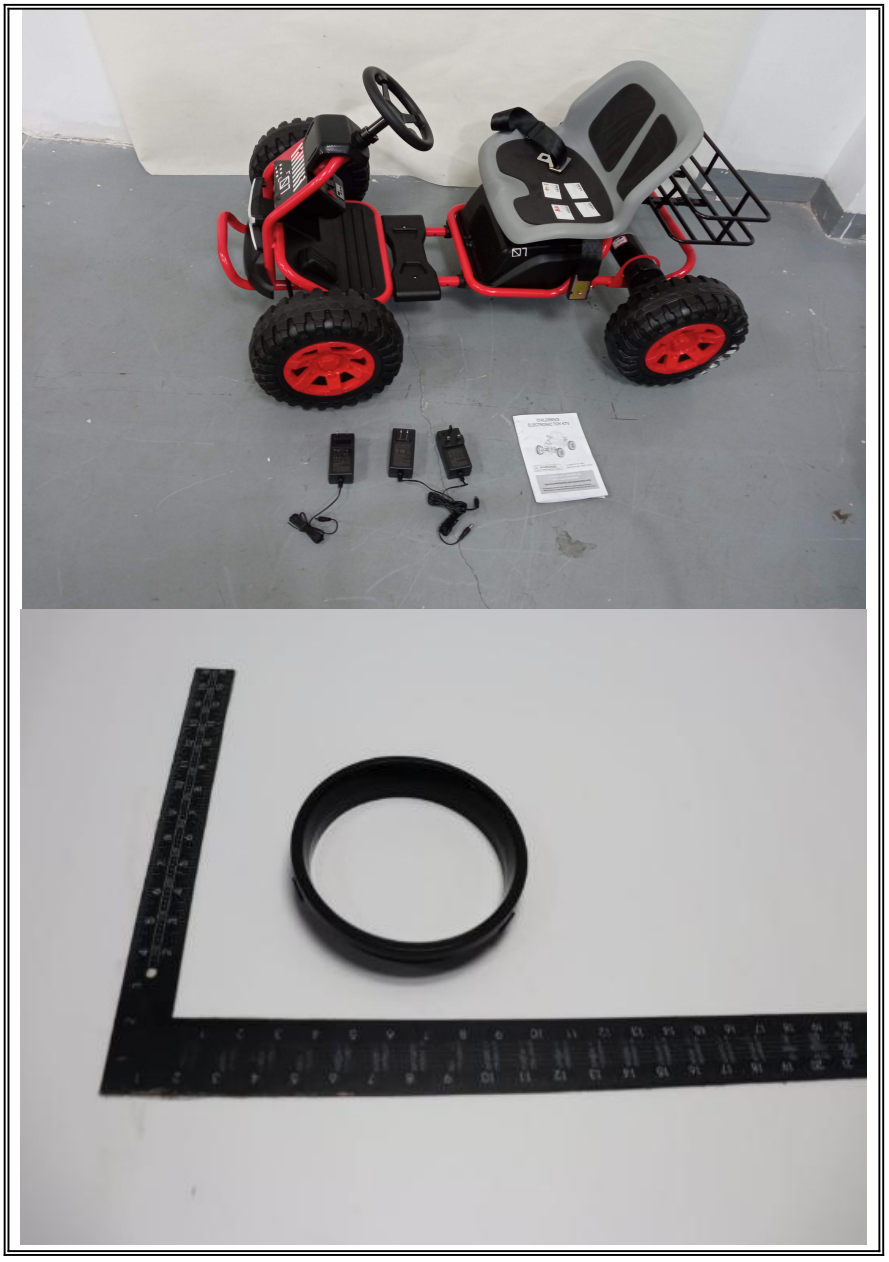
Parameter	**Unit**	**MDL**	**Result**				**Maximum Allowable Limit**
			34	35	36	37	
Lead (Pb)	mg/kg	10	88.8	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Parameter	**Unit**	**MDL**	**Result**				**Maximum Allowable Limit**
			38	39	40 + 41 + 42	45	
Lead (Pb)	mg/kg	10	ND	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	PASS	-

Note / Key:
ND = Not Detected
mg/kg = milligram per kilogram
MDL = Method Detection Limit

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SAMPLE REFERENCE PHOTO:





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