



Test Report

No.: SZHL251100874201TY

Date: DEC 30, 2025

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AFG Media Limited

Ground Floor The Tun, 6-8 jacksons Entry, Edinburgh, EH8 8P)

The following samples were submitted and identified by/on behalf of the client as:

Sample Descriptions : Astro Jetpack Inflatable Kids/Astro Jetpack Inflatable Adult
Item No.(s) : MCKROIAJP/MCROIAJP
Country of Origin : China
Country of Destination : United States,Europe
Manufacturer : Lucky Decoration Limited
Labeled Age Grading : NOT SUITABLE FOR CHILDREN UNDER 3 YEARS FOR ITEM MCKROIAJP; ADULT FOR ITEM MCROIAJP
Requested Age Grading : 3+ / 14+

SGS Order No : SZHL2511008742TY
SGS Ref. No. : TJ HL
Age Group Assessed by SGS As Per Age Guideline : OVER 3 YEARS FOR ITEM MCKROIAJP
Age Group Applied in Testing : OVER 3 YEARS FOR ITEM MCKROIAJP; ADULT FOR ITEM MCROIAJP
Sample Receiving Date : NOV 19, 2025
Further Information Date : DEC 24, 2025
Testing Period : NOV 19, 2025 TO DEC 30, 2025



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Test Requested		Conclusion
1	Although the item MCROIAJP is not a toy, the item MCKROIAJP was tested with the selected requirement(s) of the European standard on Safety of toys. Refer to test result page(s) for details:-	--
	EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties (Except clause 4.26)	MEET
	EN 71-2: 2020 – Safety of toys – Part 2: Flammability	PASS
	Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to Informative Annex A.26 and A.33 of the European standard on Safety of toys EN 71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys	PASS
2	Tracking label per section 14 [15 U.S.C. § 2063], (a)(5)(A) of the Consumer Product Safety Act, and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.	PASS
3	For compliance with test requirement of the Physical & Mechanical, Flammability test requirement of Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A	--
	Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501: -US CPSC 16 CFR 1500.48 – Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of ages -US CPSC 16 CFR 1500.49 – Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age -US CPSC 16 CFR 1501 – Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts	PASS
	US CPSC 16 CFR 1610 – Standard for the flammability of clothing textiles	NOT APPLICABLE (SEE REMARK)
	US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids	PASS



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4	The item MCROIAJP is not a toy, the item MCKROIAJP is for compliance with Toys Regulations (SOR/2011-17) of Canada Consumer Product Safety Act (S.C.2010, c. 21). (Including amendments SOR/2012-71, SOR/2016-195, SOR/2016-302 and SOR/2018-138, SOR/2022-122 and SOR/2024-217)	--
	CANADA TOYS REGULATIONS (SOR/2011-17) Physical & Mechanical Test	PASS
	CANADA TOYS REGULATIONS (SOR/2011-17) Flammability Test	PASS
5	For compliance with the test requirement of Toys Regulations (SOR/2011-17) of Canada Consumer Product Safety Act (S.C.2010, c. 21). (Including amendments SOR/2012-71, SOR/2016-195, SOR/2016-302 and SOR/2018-138, SOR/2022-122 and SOR/2024-217)	--
	CANADA TOYS REGULATIONS (SOR/2011-17) Electrical Test	PASS
6	The item MCROIAJP is not a toy, the item MCKROIAJP is for compliance with the ASTM F963-23 standard on Safety of toy.	--
	ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Physical & Mechanical Test	PASS
	ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test	PASS
7	For compliance with the test requirement of ASTM F963-23 Standard Consumer Safety Specification on Toy Safety.	--
	ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Battery-operated Toys	PASS
8	Test for compliance with the electric toys safety requirement with reference to: EN IEC 62115:2020 Electric toys – safety EN IEC 62115:2020/A11:2020	PASS
9	Test for compliance with the electric toys safety requirement with reference to BS EN IEC 62115: 2020+A11: 2020.	PASS
10	EN 71-3:2019+A1:2021 - Migration of certain elements (Category III:for scrapped-off toy material)	PASS
11	EN71-3: 2019+ A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)	PASS
12	ASTM F963-23, Clause 4.3.5.1 – Soluble Heavy Metal in Paint and Similar Surface-coating Materials	PASS



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Test Requested		Conclusion
13	ASTM F963-23, Clause 4.3.5.2 – Soluble Heavy Metal in Substrate Materials	PASS
14	ASTM F963-23, Clause 4.3.5.1 – Total Lead in Paint and Similar Surface-coating Materials	PASS
15	ASTM F963-23, Clause 4.3.5.2 – Total Lead in Substrate Materials	PASS
16	ASTM F963-23, Clause 4.3.8 – Phthalates	PASS
17	Part 1303, Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A.-Lead in paint/similar surface coating material	PASS
18	CPSIA section 101(f) - Lead in paint/similar surface coating material	PASS
19	CPSIA section 101(a)(2) - Lead in accessible substrate materials	PASS
20	CONSUMER PRODUCT SAFETY COMMISSION-16 CFR Part 1307, Final Rule, amending CPSIA section 108, Prohibition on Sale of Certain Products Containing Specified Phthalates	PASS
21	US California Proposition 65 - Lead	PASS
22	US California Proposition 65- Phthalate	PASS
23	Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2024-217 (Section 23) - Total Lead and Mercury in surface coating	PASS
24	Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2024-217 (Section 23) - Soluble Heavy Metal in surface coating	PASS
25	Canada Consumer Product Safety Act (S.C. 2010, c. 21), Consumer Products Containing Lead (Contact with Mouth) Regulations (SOR/2018-83) - Total Lead Content	PASS
26	Canada Consumer Product Safety Act (S.C. 2010, c. 21), Phthalates Regulations (SOR/2016-188) - Phthalates	PASS



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Test Requested	Conclusion
27 Canada Consumer Product Safety Act-Surface Coating Materials Regulations SOR/2016-193 and its amendment SOR/2022-122 - Total Lead in surface coating materials	PASS

Remark : All fabrics were exempted from flammability test in accordance with 16 CFR 1610.1(d)(2) due to they are made entirely from polyester.

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch



Jia Fengjuan, Shelly
Dept. Manager



Sun Enxu, Aaron
Dept. Manager



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EUROPEAN STANDARD ON SAFETY OF TOYS
EN 71-1:2014 + A1:2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

AS SPECIFIED IN EN 71-1:2014 + A1:2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

Clause	Test Item	Result
4	General Requirements	
4.1	Material Cleanliness	Pass
4.2	Assembly	NA
4.3	Flexible Plastic Sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding Materials	NA
4.7	Edges	Pass
4.8	Points And Metallic Wires	Pass
4.9	Protruding Parts	NA
4.10	Parts Moving Against Each Other	--
4.10.1	Folding And Sliding Mechanisms	NA
4.10.2	Driving Mechanisms	Pass
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth-Actuated Toys And Other Toys Intended To Be Put In The Mouth	NA
4.12	Balloons	NA
4.13	Cords Of Toy Kites And Other Flying Toys	NA
4.14	Enclosures	NA
4.14.1	Toys Which A Child Can Enter	NA
4.14.2	Masks And Helmets	NA
4.15	Toys Intended To Bear The Mass Of A Child	NA
4.16	Heavy Immobile Toys	NA
4.17	Projectiles	NA
4.18	Aquatic Toys And Inflatable Toys	NA
4.19	Percussion Caps Specifically Designed For Use In Toys And Toys Using Percussion Caps	NA



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Clause	Test Item	Result
4.20	Acoustics	NA
4.21	Toys Containing A Non-Electrical Heat Source	NA
4.22	Small Balls	NA
4.23	Magnets	NA
4.24	Yo-Yo Balls	NA
4.25	Toys Attached To Food	NA
4.26	Toy Disguise Costumes	NC
4.27	Flying Toys	NA
5	Toys Intended For Children Under 36 Months	
5.1	General Requirements	NA
5.2	Soft-Filled Toys And Soft-Filled Parts Of A Toy	NA
5.3	Plastic Sheeting	NA
5.4	Cords, Chains And Electrical Cables In Toys	NA
5.5	Liquid-Filled Toys	NA
5.6	Speed Limitation Of Electrically-Driven Ride-On Toys	NA
5.7	Glass And Porcelain	NA
5.8	Shape And Size Of Certain Toys	NA
5.9	Toys Comprising Monofilament Fibres	NA
5.10	Small Balls	NA
5.11	Play Figures	NA
5.12	Hemispheric-Shaped Toys	NA
5.13	Suction Cups	NA
5.14	Straps Intended To Be Worn Fully Or Partially Around The Neck	NA
5.15	Sledges With Cords For Pulling	NA
6	Packaging	NA
7	Warnings, Markings And Instructions For Use	
7.1	General	Pass
	Note: Please note that for assessing the visibility and legibility of warnings, CEN has introduced good practice in the informative Annex A.33 by addressing	



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Clause	Test Item	Result
	the following aspects: a) Emphasising the warning b) Contrast, background and colours c) Reflecting surfaces and obscuring material d) Font type e) Font size f) Logical direction of text For more details, see EN 71-1. Only English warnings were checked for the clause 7. According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.	
7.2	Toys Not Intended For Children Under 36 Months	Pass (See remark)
	Remark: The toy contains long cord. It is acceptable because appropriate warning is found on packaging.	
7.3	Latex Balloons	NA
7.4	Aquatic Toys	NA
7.5	Functional Toys	NA
7.6	Hazardous Sharp Functional Edges And Points	NA
7.7	Projectile Toys	NA
7.8	Imitation Protective Masks And Helmets	NA
7.9	Toy Kites	NA
7.10	Roller Skates, Inline Skates, Skateboards And Certain Other Ride-On Toys	NA
7.11	Toys Intended To Be Strung Across A Cradle, Cot, Or Perambulator	NA
7.12	Liquid-Filled Teethers	NA
7.13	Percussion Caps Specifically Designed For Use In Toys	NA
7.14	Acoustics	NA
7.15	Toy Bicycles	NA
7.16	Toys Intended To Bear The Mass Of A Child	NA
7.17	Toys Comprising Monofilament Fibres	NA
7.18	Toy Scooters	NA
7.19	Rocking Horses And Similar Toys	NA
7.20	Magnetic/Electrical Experimental Sets	NA
7.21	Toys With Electrical Cables Exceeding 300 Mm In Length	NA
7.22	Toys With Cords Or Chains Intended For Children Of 18 Months And Over But Under 36 Months	NA
7.23	Toys Intended To Be Attached To A Cradle, Cot Or Perambulator	NA



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Clause	Test Item	Result
7.24	Sledges With Cords For Pulling	NA
7.25	Flying Toys	NA
7.26	Improvised Projectiles	NA

EN 71-2: 2020 – Safety of toys – Part 2: Flammability

AS SPECIFIED IN EN 71-2: 2020 – Safety of toys – Part 2: Flammability

Type of gas: Butane gas used in the test burner

Clauses relevant to the item:

Clause	Test Item	Result
4	Requirements	
4.1	General Requirements	Pass
4.2	Toys To Be Worn On The Head	
4.2.2	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude 50 mm Or More From The Surface Of The Toy	NA
4.2.3	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude Less Than 50 mm From The Surface Of The Toy	NA
4.2.4	Full Or Partial Moulded Head Masks	NA
4.2.5	Toys To Be Worn On The Head (Except Those Covered By 4.2.2 And 4.2.3), Hoods, Headdresses Including Upward Protruding Items And Masks Not Covered By 4.2.4 Which Partially Or Fully Cover The Head (e.g. Fabric And Paperboard Masks, Eye Masks, Face Masks), But Excluding Those Items Covered By 4.3	NA
4.3	Toy Disguise Costumes And Toys Intended To Be Worn By A Child In Play	Pass (See result page)
4.4	Toys Intended To Be Entered By A Child	NA
4.5	Soft-Filled Toys	NA



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Result data:

Toys Disguise Costumes And Toys Intended To Be Worn By A Child In Play (Clause 4.3)

Sample	Burning Rate (mm/sec)	Warning
Double layer yellow fabric	10.4	Present
Yellow fabric with decorative cord	4.8	/
Yellow fabric with seam and decorative cord	12.8	Present
White fabric	17.9	Present
White fabric with seam	25	Present
Grey and black fabric	23.9	Present

Requirements:

The rate of spread of flame on the surface of toy shall not exceed 30mm/s or shall self-extinguish; The rate of spread of flame is between 10 mm/s and 30mm/s, the appropriate component(s) of the toy and the packaging shall be permanently marked with the following warning: "Warning! Keep away from fire"



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LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO INFORMATIVE ANNEX A.26 AND A.33 OF THE EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-1:2014+A1:2018 AND THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Not Applicable	----
CE mark	Present	Toy & Packaging
Importer's Name & Address	Present	Toy & Packaging
Manufacturer's Name & Address	Present	Toy & Packaging
Product ID	Present	Toy & Packaging

Note:

1. According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. According to the GUIDANCE DOCUMENT ON THE APPLICATION OF DIRECTIVE 2009/48/EC ON THE SAFETY OF TOYS, manufacturer shall not label "surface washing" on textile toys which, under the TSD, need to be soak washable."
2. CE marking should be visible from outside the packaging and its height must be at least 5mm.
3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
4. Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.



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Tracking label per section 14 [15 U.S.C. § 2063], (a)(5)(A) of the Consumer Product Safety Act, and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.

Clause	Test Item	Result
Section 103	Tracking Label (CPSIA 103)	Pass

Result data:

As specified in tracking label per section 14 [15 U.S.C. § 2063], (a)(5)(A) of the Consumer Product Safety Act, and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.

- Tracking label on the packaging: Present

- Tracking label on the product: Present

Note: The tracking label assessment was based on the submitted samples and the information provided by the applicant.
There was no verification on the validity of such information.

Test requirement of Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A.

Clauses relevant to the item:

Clause	Test Item	Result
1500.48 / 1500.49 / 1501	Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501	Pass
1500.44	US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS	Pass



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Result data:

AS SPECIFIED IN US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

Sample	Burning Rate (inch/sec)
See sample description	0.02

Requirement:

A toy / component is considered a “flammable solid” if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

AS SPECIFIED IN PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

	No. of sample tested	Sharp point (16 CFR 1500.48)	Sharp edge (16 CFR 1500.49)	Small part (16 CFR 1501)
As received	4	Pass	Pass	N/A
Impact test (16 CFR 1500.53b)	1	Pass	Pass	N/A
Bite test (16 CFR 1500.52c)	0	N/A	N/A	N/A
Flexure test (16 CFR 1500.53d)	0	N/A	N/A	N/A
Torque test (16 CFR 1500.53e)	1	Pass	Pass	N/A
Tension test (16 CFR 1500.53f)	1	Pass	Pass	N/A
Compression test (16 CFR 1500.53g)	1	Pass	Pass	N/A



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Toys Regulations SOR/2011-17 of Canada Consumer Product Safety Act (S.C.2010, c. 21). (Including amendments SOR/2012-71, SOR/2016-195, SOR/2016-302, SOR/2018-138, SOR/2022-122 and SOR/2024-217)

AS SPECIFIED IN TOYS REGULATIONS (SOR/2011-17) OF CANADA CONSUMER PRODUCT SAFETY ACT (S.C.2010, c. 21). (INCLUDING AMENDMENTS SOR/2012-71, SOR/2016-195, SOR/2016-302, SOR/2018-138 SOR/2022-122 and SOR/2024-217)

Clauses relevant to the item:

Clause	Test Item	Result
3	General	NA
4	Packaging	NA
6	Electrically Heated Toys	NA
7	Small Parts	NA
8	Metal Edges	Pass
9	Wire Frames	NA
10	Plastic Edges	Pass
11	Wood	NA
12	Glass	NA
13	Fasteners	Pass
14	Safety Stops Or Locking Devices	NA
15	Spring-Wound Driving Mechanism	NA
16	Projectiles Components	NA
17	Enclosures	NA
18	Stationary Toys Intended To Bear the Weight Of A Child	NA
19	Noise Level Of Toys	NA
20	Heated Surfaces, parts or substances	Pass
21	Celluloid Or Cellulose Nitrate	Pass
24	Organic Solvents in Balloon Blowing Kits	NA
25	Toxic substance	NA
26	Corrosive, Irritant Or Sensitizing Substances	NA
28	Doll and Soft Toys – Fastenings	NA
29	Doll, Plush Toys And Soft Toys – Stuffing Material	NA
30	Doll, Plush Toys And Soft Toys – Small Parts	NA
31	Doll, Plush Toys And Soft Toys – Eyes And Noses	NA



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Clause	Test Item	Result
32	Flammability of Flat / Raised Fibre Textile Material	Pass (See result page)
33	Flammability of Yarn / Filaments	NA
34	Flammability of Hair / Mane	NA
35	Plant Seeds - Noise	NA
36	Plant Seeds - Stuffing Material	NA
37	Pull and Push Toys	NA
38	Toy Steam Engines	NA
39	Finger Paints	NA
40	Rattles	NA
41	Elastics	NA
42	Yo-yo Type Balls	NA
43	Magnetic Toys	NA
44	Warning for Magnetic Toys	NA
45	Toys Intended To Be Entered By A Child - Exception	NA
46	Toys Intended To Be Entered By A Child - Requirements And Testing	NA
47	Toys Intended To Be Entered By A Child - Warning	NA

Remark: It is drawn to your attention that all the statement or warning statement which stated in product or its package should be appeared in English and French Bilingual as specified in section 3 of this regulation.

Result Data:

Flammability Test for Flat/Raised Fibre Textile Material (Section 32)

Result: The below samples were tested and passed the requirements.

Tested Components:

- Black fabric
- White fabric
- Grey fabric
- Yellow fabric
- White and blue fabric
- Red and white fabric
- Red and grey fabric
- Double layer yellow fabric



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Requirement:

Flat or raised fibre textile material or natural fur, the time of flame spread should be in excess of 7 Seconds.

ASTM F963-23 Standard Consumer Safety Specification for Toy Safety

AS SPECIFIED IN ASTM F963-23 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

Clause	Test Item	Result
4	Safety Requirements	
4.1	Material Quality	Pass
4.2	Flammability for solids and soft toys	Pass (See result page)
4.2	Flammability for fabrics	Pass (See result page)
4.3	Toxicology	--
4.3.2	Manufacturing And Packaging Of Food	NA
4.3.4	Cosmetics	NA
4.3.6.3	Cosmetics, Liquids, Pastes, Putties, Gels, Powders, And Items Of Avian Feather Origin	NA
4.3.6.4	Cosmetics, Liquids, Pastes, Putties, Gels And Powders	NA
4.3.7	Stuffing Materials	NA
4.4	Electrical/Thermal Energy	NA
4.5	Sound-producing Toys	NA
4.6.1	Small Objects	NA
4.6.2	Mouth-actuated Toys	NA
4.6.3	Labelling Requirements	NA (See remark)
	Remark: The toy does not contain as-received small part.	



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Clause	Test Item	Result
4.7	Accessible Edges	Pass
4.8	Projections	NA
4.9	Accessible Points	Pass
4.10	Wires Or Rods	NA
4.11	Nails And Fasteners	Pass
4.12	Plastic Film	NA
4.13.1	Folding Mechanisms	NA
4.13.2	Hinge-line Clearance	NA
4.14	Cords, Straps, And Elastics	NA
4.15	Stability And Over-load Requirements	NA
4.16	Confined Spaces	NA
4.17	Wheels, Tires, And Axles	NA
4.18	Holes, Clearance, And Accessibility Of Mechanisms	Pass
4.19	Simulated Protective Devices	NA
4.20	Pacifiers	NA
4.21	Projectile Toys	NA
4.22	Teethers And Teething Toys	NA
4.23	Rattles	NA
4.24	Squeeze Toys	NA
4.25	Battery-operated Toys	Pass
	(Non-rechargeable battery)	
4.25.1	Battery-Operated Toys-Compartment Markings	Pass
4.25.1.1	Battery-Operated Toys-Non Replaceable Batteries	NA
4.25.2	Battery-Operated Toys-Max DC Voltage	Pass
4.25.3	Battery-Operated Toys-Reversed Batteries	Pass
4.25.4	Battery-Operated Toys-Accessible Batteries	Pass
4.25.4.1	Battery Accessibility For Toys Intended For Children Less Than 3 Years Old	NA
4.25.4.2	Battery Accessibility_Small Parts	NA
4.25.4.3	Battery Accessibility_Fastener Remain	Pass



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Clause	Test Item	Result
4.25.4.4	Battery Accessibility_Tool Instruction	NA
4.25.5	Batteries of different types or capacities shall not be mixed within any single electrical circuit	Pass
4.25.6	Temperature of the battery surfaces shall not exceed 71°C	Pass
4.25.6.1	Toys was operated under normal use condition	Pass
4.25.6.2	Toys was operated with accessible moving parts locked	NA
4.25.7	Battery-Operated Toys-Battery Surface Temperature	Pass
4.25.8	Battery-Operated Toys-Instruction	Pass
4.25.9	Battery-Powered Ride-On Toys	NA
4.25.10	Toys That Contain Secondary Cells Or Secondary Batteries	NA
4.26	Toys Intended To Be Attached To A Crib Or Playpen	NA
4.27	Stuffed And Beanbag-type Toys	NA
4.28	Stroller And Carriage Toys	NA
4.29	Art Materials	NA
4.30	Toy Gun Marking	NA
4.31	Balloons	NA
4.32	Certain Toys With Nearly Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment In Handles And Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Labeling Requirements	
5.1	Federal Government Requirements	--
5.1.1	Specific Labeling Requirement	See Remark



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Clause	Test Item	Result
	(Remark: 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.)	
5.1.2	Tracking Label	Pass
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	NA
5.3	Safety Labeling Requirements	NA
5.4	Aquatic Toys	NA
5.5	Crib And Playpen Toys	NA
5.6	Mobiles	NA
5.7	Stroller And Carriage Toys	NA
5.8	Toys Intended To Be Assembled By An Adult	NA
5.9	Simulated Protective Devices	NA
5.10	Toys With Functional Sharp Edges Or Points	NA
5.11	Small Objects, Small Balls, Marbles, and Balloons	NA
5.12	Art Materials	NA
5.13	Electric Toys	NA
5.14	Battery-operated Toys	NA
5.15	Promotional Materials	Pass
5.16	Magnets	NA
6	Instructional Literature	
6.2	Crib And Playpen Toys	NA
6.3	Mobiles	NA
6.4	Toys Intended To Be Assembled By An Adult	NA
6.5	Battery-operated Toys	Pass



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Clause	Test Item	Result
6.6	Battery-powered Ride-on Toys	NA
6.7	Toys In Contact With Food	NA
6.8	Toy Chests	NA
6.9	The instructional material for toys which require a manufacturer-supplied specialty or custom tool to access the battery(ies)	NA
7	Producer's Markings	
7.1	Producer's Markings	Pass
7.2	Battery-powered Ride-on Toys	NA
7.3	Toy Chests	NA
8	Test Methods	
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass
8.8	Torque Test	Pass
8.9	Tension Test	Pass
8.10	Compression Test	Pass
8.12	Flexure Test	NA
8.16	Tension Test For Pompoms	NA



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Result Page:
Flammability Test on Textile Materials

Result: The below samples were tested and passed the requirements.

Tested Components:

1. Black fabric	2. White fabric
3. Grey fabric	4. Yellow fabric
5. White and blue fabric	6. Red and white fabric
7. Red and grey fabric	8. Double layer yellow fabric

	Plain Surface Fabrics	Raised Surface Fabrics
Requirements:	(1) All specimens either did not ignite, ignited but self extinguished, or any combination thereof. (2) Average burn time is 3.5 s or greater.	(1) All specimens either did not ignite, ignited but self extinguished, or any combination thereof. (2) Average burn time is 4 s or greater. (3) Average burn time is less than 4 s and all specimens burn with a surface flash where the intensity of the surface flame is insufficient to ignite, char, or melt the base fabric. (4) Only 1 of 5 specimens ignites and burns in less than 4s and the base fabric does not ignite or fuse, the sample is acceptable. (5) Only 1 of 5 specimens ignites or burns in more than 4s, regardless of whether the base fabric ignites or fuses, the sample is acceptable.



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Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample	Burning Rate (inch/sec)
See sample description	0.02

Requirement:

A toy / component is considered a “flammable solid” if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

EN IEC 62115:2020 ELECTRIC TOYS – SAFETY SPECIFICATION REQUIREMENTS & TEST RESULTS EN IEC 62115:2020/A11:2020 SPECIFICATION REQUIREMENTS & TEST RESULTS

CLAUSE	OBSERVATION	RESULT
1	Scope	--
2	Normative references	--
3	Terms And Definitions	--
4	General requirement	--
5	General Conditions For The Tests	--
6	Criteria for reduced testing	--
7	Marking and instructions	Pass
	(Remark: According to the standard, instruction and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold.)	
8	Power input	NA



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9	Heating and abnormal operation	Pass
10	Electric strength	Pass
11	Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid	NA
12	Mechanical strength	Pass
13	Construction	Pass
14	Protection of cords and wires	Pass
15	Components	Pass
16	Screws and connections	Pass
17	Clearances and creepage distances	Pass
18	Resistance to heat and fire	Pass
19	Emission From Electric Toys Incorporating Lasers And or Light Emitting Diodes or UV Emitting Lamps (Annex E)	NA
	(Remark: The submitted sample did not incorporate any laser or LED or UV emitting lamps)	
	Toxicological Hazards Shall Comply With EN 71 Series of Standards	--
	(Remark: It is the manufacturer's responsibility to ensure the toy does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use.)	
	Modulated Accessible Emission	NA
	Toys With An Integrated Field Source Shall Comply With Annex I	NA
	(Remark: The submitted sample did not incorporate part which consuming a current more than 3A.)	



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Note: About requirements in Directive 2009/48/EC

According to 2009/48/EC, name and address of manufacturer and importer, and product identification shall be indicated on the toy, or, where that is not possible, on its packaging or in a document accompanying the toy.

BS EN IEC 62115: 2020+A11: 2020 SPECIFICATION REQUIREMENTS & TEST RESULTS

CLAUSE	OBSERVATION	RESULT
1	Scope	--
2	Normative references	--
3	Terms And Definitions	--
4	General requirement	--
5	General Conditions For The Tests	--
6	Criteria for reduced testing	--
7	Marking and instructions	Pass
	(Remark: According to the standard, instruction and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold.)	
8	Power input	NA
9	Heating and abnormal operation	Pass
10	Electric strength	Pass
11	Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid	NA
12	Mechanical strength	Pass



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13	Construction	Pass
14	Protection of cords and wires	Pass
15	Components	Pass
16	Screws and connections	Pass
17	Clearances and creepage distances	Pass
18	Resistance to heat and fire	Pass
19	Emission From Electric Toys Incorporating Lasers And or Light Emitting Diodes or UV Emitting Lamps (Annex E)	NA
	(Remark: The submitted sample did not incorporate any laser or LED or UV emitting lamps)	
	Toxicological Hazards Shall Comply With EN 71 Series of Standards	--
	(Remark: It is the manufacturer's responsibility to ensure the toy does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use.)	
	Modulated Accessible Emission	NA
	Toys With An Integrated Field Source Shall Comply With Annex I	NA
	(Remark: The submitted sample did not incorporate part which consuming a current more than 3A.)	

Note: About requirements in Directive 2009/48/EC

According to 2009/48/EC, name and address of manufacturer and importer, and product identification shall be indicated on the toy, or, where that is not possible, on its packaging or in a document accompanying the toy.



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Test Result(s):

Test Part Description:

SN ID	Sample No.	Description
SN1	A1	Black fabric w/ transparent layer backing (Body)
SN2	A2	Grey fabric w/ transparent layer backing (Body)
SN3	A3	White fabric w/ transparent layer backing (Body)
SN4	A4	Yellow fabric w/ transparent layer backing (Body)
SN5	A5	Red fabric w/ transparent layer backing (Body)
SN6	A6	Orange fabric w/ transparent layer backing (Body)
SN7	A7	Black tricot w/ black fabric thread (Loop fastener)
SN8	A8	Black plastic sheet (Hook fastener)
SN9	A9	White woven band (Zipper tape) w/ white, yellow, black, grey, dark cream fabric thread (Body)
SN10	A10	Translucent white plastic (Zipper teeth)
SN11	A11	White plastic (Block)
SN12	A12	White tricot (Loop fastener)
SN13	A13	White plastic sheet (Hook fastener)
SN14	A14	Black non-woven (Fastener)
SN15	A15	White woven band (Thin elastic band)
SN16	A16	Black coating on fabric (Body)
SN17	A17	Dark red coating on fabric (Body)
SN18	A18	Red coating on fabric (Body)
SN19	A19	Blue-purple coating on fabric (Pattern)
SN20	A20	White coating on metal (Zipper head, zipper puller)
SN21	A21	Silvery metal (Zipper puller)
SN22	A22	Silvery metal (Fastener of zipper head)
SN23	A23	Silvery metal (Body of zipper head)
SN24	A24	White woven band (Thick elastic band)
SN25	A25	Pale blue soft plastic core (Elastic band)
SN26	A26	Blue coating on fabric (Pattern)
SN27	A27	Light red coating on fabric (Pattern)
SN28	A28	Off-white soft plastic core (Elastic band)
SN29	A29	White non-woven (Fastener)
SN30	A1+A2+A3	Black fabric w/ transparent layer backing (Body) + Grey fabric w/ transparent layer backing (Body) + White fabric w/ transparent layer backing (Body)
SN31	A4+A5+A6	Yellow fabric w/ transparent layer backing (Body) + Red fabric w/ transparent layer backing (Body) + Orange fabric w/ transparent layer backing (Body)
SN32	A10/A11	Translucent white plastic (Zipper teeth) w/ White plastic (Block)
SN33	A16/A18	Black coating on fabric (Body) w/ Red coating on fabric (Body)



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SN ID	Sample No.	Description
SN34	A17/A19/A20 /A26/A27	Dark red coating on fabric (Body) w/ Blue-purple coating on fabric (Pattern) w/ White coating on metal (Zipper head, zipper puller) w/ Blue coating on fabric (Pattern) w/ Light red coating on fabric (Pattern)
SN35	A8+A13	Black plastic sheet (Hook fastener) + White plastic sheet (Hook fastener)
SN36	A25/A28	Pale blue soft plastic core (Elastic band) w/ Off-white soft plastic core (Elastic band)

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

EN 71-3:2019+A1:2021 - Migration of certain elements (Category III:for scrapped-off toy material)

Test Method: With reference to EN 71-3:2019+A1:2021, analysis was performed by ICP-OES, IC-UV, LC-ICP-MS or IC-ICP-MS.
Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A12
Mass of trace amount	-	mg	-	/	61.2	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Mass of trace amount	-	mg	-	/	/	98.7
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	51
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	967
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	382	611
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	55	57
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A26	A29
Mass of trace amount	-	mg	-	30.7	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	368	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	4792	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A26	A29
Conclusion				Pass	Pass

Remark:

As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in EN 71-3:2019+A1:2021.
A19, A20, A27

Notes:

(1) According to Chapter of 10.1.2 of EN 71-3:2019+A1:2021, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021.

(3) ☐ De-waxing was applied (excluding analysis of organic tin) on test specimen.

(4) / = Not Applicable.

EN71-3: 2019+ A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)

Test Method: With reference to EN 71-3:2019+ A2:2024, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.

Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A12
Mass of trace amount	-	mg	-	/	61.2	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Mass of trace amount	-	mg	-	/	/	98.7
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	51
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	967
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	382	611
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	55	57
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A26	A29
Mass of trace amount	-	mg	-	30.7	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	368	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A26	A29
Soluble Aluminum(Al)	28130	mg/kg	50	4792	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND
Conclusion				Pass	Pass

Remark:

As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in EN 71-3:2019+A2:2024.
A19, A20, A27

Notes:

(1) According to Chapter of 10.1.2 of EN 71-3:2019+ A2:2024, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+ A2:2024.

(3) /=Not Applicable

ASTM F963-23, Clause 4.3.5.1 – Soluble Heavy Metal in Paint and Similar Surface-coating Materials

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	11
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A26
Mass of trace amount	-	mg	-	30.7
Soluble Lead(Pb)	90	mg/kg	5	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND



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Test Item(s)	Limit	Unit(s)	MDL	A26
Soluble Selenium(Se)	500	mg/kg	10	ND
Conclusion				Pass

Remark:

As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for certain migration elements, as specified in ASTM F963-23 Clause 8.3.3.6 (2) – Selection of Test Portions A19, A20, A27

Notes:

- (1) Results shown are of the adjusted analytical results.
- (2) ●As received, the test portion of samples from one whole sample are less than 10mg, therefore such components were not tested for certain migration elements, as specified in ASTM F963-23 Clause 8.3.3.6 (2).
- (3) De-waxing was applied on test specimen.

ASTM F963-23, Clause 4.3.5.2 – Soluble Heavy Metal in Substrate Materials

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A12
Mass of trace amount	-	mg	-	/	61.2	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Mass of trace amount	-	mg	-	/	/	98.7
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	35
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A24	A25	A28
Mass of trace amount	-	mg	-	/	/	41.0
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	113
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A24	A25	A28
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A29
Mass of trace amount	-	mg	-	/
Soluble Lead(Pb)	90	mg/kg	5	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND
Soluble Selenium(Se)	500	mg/kg	10	ND
Conclusion				Pass

Notes:

- (1) Results shown are of the adjusted analytical results.
- (2) ●As received, the test portion of samples from one whole sample are less than 10mg, therefore such components were not tested for certain migration elements, as specified in ASTM F963-23 Clause 8.3.3.6 (2).
- (3) De-waxing was applied on test specimen.

ASTM F963-23, Clause 4.3.5.1 – Total Lead in Paint and Similar Surface-coating Materials

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A16/A18	A17/A19/A20/A26/A27
Lead(Pb)	90	mg/kg	20	ND	ND
Conclusion				Pass	Pass

ASTM F963-23, Clause 4.3.5.2 – Total Lead in Substrate Materials

Test Method: With reference to CPSC-CH-E1002-08.3. analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A25	A1+A2+A3	A4+A5+A6
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A10/A11	A8+A13	A25/A28
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Method: With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A21	A22	A23
Lead(Pb)	100	mg/kg	20	29	ND	21
Conclusion				Pass	Pass	Pass

ASTM F963-23, Clause 4.3.8 – Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A25	A1+A2+A3	A4+A5+A6
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	0.007	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	0.1	%	0.005	ND	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%	0.005	ND	ND	ND
Dipentyl Phthalate (DPENP)	131-18-0	0.1	%	0.005	ND	ND	ND
Dihexyl Phthalate (DHEXP/ DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A10/A11	A16/A18	A17/A19/A20/A26/A27
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	0.012	0.006
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	0.1	%	0.005	ND	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%	0.005	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A10/A11	A16/A18	A17/A19/ A20/A26/ A27
Dipentyl Phthalate (DPENP)	131-18-0	0.1	%	0.005	ND	ND	ND
Dihexyl Phthalate (DHEXP/ DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A8+A13	A25/A28
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%	0.005	ND	ND
Dipentyl Phthalate (DPENP)	131-18-0	0.1	%	0.005	ND	ND
Dihexyl Phthalate (DHEXP/ DnHP)	84-75-3	0.1	%	0.005	ND	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	0.1	%	0.005	ND	ND
Conclusion					Pass	Pass

Part 1303, Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A.-Lead in paint/similar surface coating material

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A16/A18	A17/A19/A 20/A26/A27
Lead(Pb)	0.009	%	0.0020	ND	ND
Conclusion				Pass	Pass



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CPSIA section 101(f) - Lead in paint/similar surface coating material

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A16/A18	A17/A19/A20/A26/A27
Lead (Pb)	90	mg/kg	20	ND	ND
Conclusion				Pass	Pass

CPSIA section 101(a)(2) - Lead in accessible substrate materials

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A25	A1+A2+A3	A4+A5+A6
Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A10/A11	A8+A13
Lead (Pb)	100	mg/kg	20	ND	ND
Conclusion				Pass	Pass

Test Method: With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A21	A22	A23
Lead (Pb)	100	mg/kg	20	29	ND	21
Conclusion				Pass	Pass	Pass

CONSUMER PRODUCT SAFETY COMMISSION-16 CFR Part 1307, Final Rule, amending CPSIA section 108, Prohibition on Sale of Certain Products Containing Specified Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A25	A1+A2+A3	A4+A5+A6
Benzyl Butyl Phthalate (BBP)	85-68-7	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	84-74-2	1000	mg/kg	50	ND	ND	ND
Dicyclohexyl Phthalates (DCHP)	84-61-7	1000	mg/kg	50	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A25	A1+A2+A3	A4+A5+A6
Di(2-ethyl hexyl) Phthalate (DEHP)	117-81-7	1000	mg/kg	50	65	ND	ND
Di-n-hexyl Phthalates (DHEXP/ DnHP)	84-75-3	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	84-69-5	1000	mg/kg	50	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	1000	mg/kg	50	ND	ND	ND
Dipentyl Phthalates (DPENP)	131-18-0	1000	mg/kg	50	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A10/A11	A16/A18	A17/A19/A20/A26/A27
Benzyl Butyl Phthalate (BBP)	85-68-7	1000	mg/kg	50	ND	117	55
Dibutyl Phthalate (DBP)	84-74-2	1000	mg/kg	50	ND	ND	ND
Dicyclohexyl Phthalates (DCHP)	84-61-7	1000	mg/kg	50	ND	ND	ND
Di(2-ethyl hexyl) Phthalate (DEHP)	117-81-7	1000	mg/kg	50	ND	ND	ND
Di-n-hexyl Phthalates (DHEXP/ DnHP)	84-75-3	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	84-69-5	1000	mg/kg	50	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	1000	mg/kg	50	ND	ND	ND
Dipentyl Phthalates (DPENP)	131-18-0	1000	mg/kg	50	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A8+A13	A25/A28
Benzyl Butyl Phthalate (BBP)	85-68-7	1000	mg/kg	50	ND	ND
Dibutyl Phthalate (DBP)	84-74-2	1000	mg/kg	50	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A8+A13	A25/A28
Dicyclohexyl Phthalates (DCHP)	84-61-7	1000	mg/kg	50	ND	ND
Di(2-ethyl hexyl) Phthalate (DEHP)	117-81-7	1000	mg/kg	50	ND	ND
Di-n-hexyl Phthalates (DHEXP/ DnHP)	84-75-3	1000	mg/kg	50	ND	ND
Diisobutyl Phthalates (DIBP)	84-69-5	1000	mg/kg	50	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	1000	mg/kg	50	ND	ND
Dipentyl Phthalates (DPENP)	131-18-0	1000	mg/kg	50	ND	ND
Conclusion					Pass	Pass

US California Proposition 65 - Lead

Test Method: With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A21	A22	A23
Lead(Pb)	100	mg/kg	20	29	ND	21
Conclusion				Pass	Pass	Pass

Notes:

(1) The limit is referenced to the requirement as stated in County of ACSC Case no. RG-07-356892 and Public Law (Consumer Product Safety Improvement Act of 2008, CPSIA).

(2) The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.

A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure.

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A25	A1+A2+A3	A4+A5+A6
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A10/A11	A8+A13	A25/A28
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Notes:

(1) The limit is referenced to the requirement as stated in County of ACSC Case no. RG-07-356892 and Public Law (Consumer Product Safety Improvement Act of 2008, CPSIA).

(2) The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.

A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure.

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A16/A18	A17/A19/A20/A26/A27
Lead(Pb)	90	mg/kg	20	ND	ND
Conclusion				Pass	Pass

Notes:

(1) The limit is referenced to the requirement as stated in County of ACSC Case no. RG-07-356892 and Public Law (Consumer Product Safety Improvement Act of 2008, CPSIA).

(2) The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.

A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure.

US California Proposition 65- Phthalate

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A25	A1+A2+A3	A4+A5+A6
Benzyl Butyl Phthalate(BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND	ND
Dibutyl Phthalate(DBP)	84-74-2	0.1	%	0.005	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A25	A1+A2+A3	A4+A5+A6
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	0.1	%	0.005	0.007	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.005	ND	ND	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A10/A11	A16/A18	A17/A19/A20/A26/A27
Benzyl Butyl Phthalate(BBP)	85-68-7	0.1	%	0.005	ND	0.012	0.006
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND	ND
Dibutyl Phthalate(DBP)	84-74-2	0.1	%	0.005	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	0.1	%	0.005	ND	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.005	ND	ND	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A8+A13	A25/A28
Benzyl Butyl Phthalate(BBP)	85-68-7	0.1	%	0.005	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND
Dibutyl Phthalate(DBP)	84-74-2	0.1	%	0.005	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	0.1	%	0.005	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.005	ND	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	0.1	%	0.005	ND	ND
Conclusion					Pass	Pass



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Notes:

- (1) The limit is referenced to the requirement as stated in ACSC Case No.BG07350969 (May 08).
 (2) The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.
 A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure

Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2024-217 (Section 23) - Total Lead and Mercury in surface coating

Test Method: With reference to CPSC-CH-E1002-08.3 / CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A16/A18	A17/A19/A20/A26/A27
Lead(Pb)	90	mg/kg	20	ND	ND
Mercury(Hg)	10	mg/kg	10	ND	ND
Conclusion				Pass	Pass

Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2024-217 (Section 23) - Soluble Heavy Metal in surface coating

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Soluble Antimony(Sb)	1000	mg/kg	50	ND	ND	ND
Soluble Arsenic(As)	1000	mg/kg	50	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	1000	mg/kg	50	ND	ND	ND
Soluble Selenium(Se)	1000	mg/kg	50	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A26
Soluble Antimony(Sb)	1000	mg/kg	50	ND	ND	ND
Soluble Arsenic(As)	1000	mg/kg	50	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	1000	mg/kg	50	ND	ND	ND
Soluble Selenium(Se)	1000	mg/kg	50	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A27
Soluble Antimony(Sb)	1000	mg/kg	50	ND
Soluble Arsenic(As)	1000	mg/kg	50	ND



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Test Item(s)	Limit	Unit(s)	MDL	A27
Soluble Barium(Ba)	1000	mg/kg	50	ND
Soluble Cadmium(Cd)	1000	mg/kg	50	ND
Soluble Selenium(Se)	1000	mg/kg	50	ND
Conclusion	Pass			

Notes:

(1) Results shown are of the adjusted analytical results.

Canada Consumer Product Safety Act (S.C. 2010, c. 21), Consumer Products Containing Lead (Contact with Mouth) Regulations (SOR/2018-83) - Total Lead Content

Test Method: With reference to CPSC-CH-E1001-08.3 / CPSC-CH-E1002-08.3 / CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A21	A22	A23
Lead(Pb)	90	mg/kg	20	29	ND	21
Conclusion	Pass			Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A1+A2+A3	A4+A5+A6	A10/A11
Lead(Pb)	90	mg/kg	20	ND	ND	ND
Conclusion	Pass			Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A16/A18	A17/A19/A20/A26/A27	A8+A13
Lead(Pb)	90	mg/kg	20	ND	ND	ND
Conclusion	Pass			Pass	Pass	Pass

Canada Consumer Product Safety Act (S.C. 2010, c. 21), Phthalates Regulations (SOR/2016-188) - Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A2+A3	A4+A5+A6	A16/A18
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND	0.012
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	0.1	%	0.005	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A2+A3	A4+A5+A6	A16/A18
Di-n-octyl Phthalate (DNOP)	117-84-0	0.1	%	0.005	ND	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A17/A19/A20/A26/A27	A8+A13
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	0.006	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	0.1	%	0.005	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.005	ND	ND
Conclusion					Pass	Pass

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A25	A25/A28
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	0.007	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND
Conclusion					Pass	Pass

Canada Consumer Product Safety Act-Surface Coating Materials Regulations SOR/2016-193 and its amendment SOR/2022-122 - Total Lead in surface coating materials

Test Method: With reference to CPSC-CH-E1002-08.3 / CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A16/A18	A17/A19/A20/A26/A27
Lead(Pb)	90	mg/kg	20	ND	ND
Conclusion				Pass	Pass



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The below Result(s) is(are) extracted from report No.SZHL251100867101TY.

Test Result(s):

Test Part Description:

SN ID	Sample No.	Description
SN1	A	Whole sample
SN2	A1	Transparent plastic (Body)
SN3	A2	Silvery plastic label w/ black printing (Sticker)
SN4	A3	Black soft plastic (SR)
SN5	A4	Black soft plastic (Cable jacket)
SN6	A5	Black plastic (Battery box)
SN7	A6	Black plastic (Switch)
SN8	A7	Silvery metal screw
SN9	A11	Bright silvery metal screw
SN10	A1+A5+A6	Transparent plastic (Body) + Black plastic (Battery box) + Black plastic (Switch)
SN11	A3/A2+A4	Black soft plastic (SR) w/ Silvery plastic label w/ black printing (Sticker) + Black soft plastic (Cable jacket)
SN12	A3+A4	Black soft plastic (SR) + Black soft plastic (Cable jacket)
SN13	A8+A9/A10	Red soft plastic (Wire jacket) + Black soft plastic (Wire jacket) w/ Transparent plastic sheet (Washer)

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

EN 71-3:2019+A1:2021 - Migration of certain elements (Category III:for scrapped-off toy material)

Test Method: With reference to EN 71-3:2019+A1:2021, analysis was performed by ICP-OES, IC-UV, LC-ICP-MS or IC-ICP-MS.
Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Mass of trace amount	-	mg	-	/	75.2	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Mass of trace amount	-	mg	-	/	/	32.0
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Notes:

(1) According to Chapter of 10.1.2 of EN 71-3:2019+A1:2021, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021.

(3) ☞ De-waxing was applied (excluding analysis of organic tin) on test specimen.

(4) / = Not Applicable.



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EN71-3: 2019+ A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)

Test Method: With reference to EN 71-3:2019+ A2:2024, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.
Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Mass of trace amount	-	mg	-	/	75.2	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Mass of trace amount	-	mg	-	/	/	32.0
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Notes:

(1) According to Chapter of 10.1.2 of EN 71-3:2019+ A2:2024, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+ A2:2024.

(3) /=Not Applicable

ASTM F963-23, Clause 4.3.5.1 – Soluble Heavy Metal in Paint and Similar Surface-coating Materials

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A
Mass of trace amount	-	mg	-	N/A
Soluble Lead(Pb)	90	mg/kg	5	N/A
Soluble Antimony(Sb)	60	mg/kg	5	N/A
Soluble Arsenic(As)	25	mg/kg	2.5	N/A
Soluble Barium(Ba)	1000	mg/kg	10	N/A
Soluble Cadmium(Cd)	75	mg/kg	5	N/A
Soluble Chromium(Cr)	60	mg/kg	5	N/A
Soluble Mercury(Hg)	60	mg/kg	5	N/A
Soluble Selenium(Se)	500	mg/kg	10	N/A
Conclusion				Not Applicable

Notes:

(1) Results shown are of the adjusted analytical results.

(2) ●As received, the test portion of samples from one whole sample are less than 10mg, therefore such components were not tested for certain migration elements, as specified in ASTM F963-23 Clause 8.3.3.6 (2).

(3) De-waxing was applied on test specimen.



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ASTM F963-23, Clause 4.3.5.2 – Soluble Heavy Metal in Substrate Materials

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Mass of trace amount	-	mg	-	/	75.2	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Mass of trace amount	-	mg	-	/	/	32.0
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Notes:

- Results shown are of the adjusted analytical results.
- As received, the test portion of samples from one whole sample are less than 10mg, therefore such components were not tested for certain migration elements, as specified in ASTM F963-23 Clause 8.3.3.6 (2).
- De-waxing was applied on test specimen.

ASTM F963-23, Clause 4.3.5.1 – Total Lead in Paint and Similar Surface-coating Materials

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A
Lead(Pb)	90	mg/kg	20	N/A
Conclusion				Not Applicable



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ASTM F963-23, Clause 4.3.5.2 – Total Lead in Substrate Materials

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A2	A1+A5+A6	A3+A4
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Method: With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A7	A11
Lead(Pb)	100	mg/kg	20	ND	ND
Conclusion				Pass	Pass

ASTM F963-23, Clause 4.3.8 – Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A5+A6	A3/A2+A4
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%	0.005	ND	ND
Dipentyl Phthalate (DPENP)	131-18-0	0.1	%	0.005	ND	ND
Dihexyl Phthalate (DHEXP/ DnHP)	84-75-3	0.1	%	0.005	ND	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	0.1	%	0.005	ND	ND
Conclusion					Pass	Pass

Part 1303, Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A.-Lead in paint/similar surface coating material

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A
Lead(Pb)	0.009	%	0.0020	N/A
Conclusion				Not Applicable



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CPSIA section 101(f) - Lead in paint/similar surface coating material

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A
Lead (Pb)	90	mg/kg	20	N/A
Conclusion				Not Applicable

CPSIA section 101(a)(2) - Lead in accessible substrate materials

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A2	A1+A5+A6	A3+A4
Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Method: With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A7	A11
Lead (Pb)	100	mg/kg	20	ND	ND
Conclusion				Pass	Pass

CONSUMER PRODUCT SAFETY COMMISSION-16 CFR Part 1307, Final Rule, amending CPSIA section 108, Prohibition on Sale of Certain Products Containing Specified Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A5+A6	A3/A2+A4
Benzyl Butyl Phthalate (BBP)	85-68-7	1000	mg/kg	50	ND	ND
Dibutyl Phthalate (DBP)	84-74-2	1000	mg/kg	50	ND	ND
Dicyclohexyl Phthalates (DCHP)	84-61-7	1000	mg/kg	50	ND	ND
Di(2-ethyl hexyl) Phthalate (DEHP)	117-81-7	1000	mg/kg	50	ND	ND
Di-n-hexyl Phthalates (DHEXP/DnHP)	84-75-3	1000	mg/kg	50	ND	ND
Diisobutyl Phthalates (DIBP)	84-69-5	1000	mg/kg	50	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	1000	mg/kg	50	ND	ND
Dipentyl Phthalates (DPENP)	131-18-0	1000	mg/kg	50	ND	ND
Conclusion					Pass	Pass



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US California Proposition 65 - Lead

Test Method: With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A7	A11
Lead(Pb)	100	mg/kg	20	ND	ND
Conclusion				Pass	Pass

Notes:

(1) The limit is referenced to the requirement as stated in County of ACSC Case no. RG-07-356892 and Public Law (Consumer Product Safety Improvement Act of 2008, CPSIA).

(2) The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.

A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure.

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A2	A1+A5+A6	A3+A4
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Notes:

(1) The limit is referenced to the requirement as stated in County of ACSC Case no. RG-07-356892 and Public Law (Consumer Product Safety Improvement Act of 2008, CPSIA).

(2) The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.

A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure.

US California Proposition 65- Phthalate

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A5+A6	A3/A2+A4
Benzyl Butyl Phthalate(BBP)	85-68-7	0.1	%	0.005	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A5+A6	A3/A2+A4
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND
Dibutyl Phthalate(DBP)	84-74-2	0.1	%	0.005	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	0.1	%	0.005	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.005	ND	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	0.1	%	0.005	ND	ND
Conclusion					Pass	Pass

Notes:

(1) The limit is referenced to the requirement as stated in ACSC Case No.BG07350969 (May 08).

(2) The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.

A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure

Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2024-217 (Section 23) - Total Lead and Mercury in surface coating

Test Method: With reference to CPSC-CH-E1002-08.3 / CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A2
Lead(Pb)	90	mg/kg	20	ND
Mercury(Hg)	10	mg/kg	10	ND
Conclusion				Pass

Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2024-217 (Section 23) - Soluble Heavy Metal in surface coating

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A2
Soluble Antimony(Sb)	1000	mg/kg	50	ND
Soluble Arsenic(As)	1000	mg/kg	50	ND
Soluble Barium(Ba)	1000	mg/kg	50	ND
Soluble Cadmium(Cd)	1000	mg/kg	50	ND
Soluble Selenium(Se)	1000	mg/kg	50	ND
Conclusion				Pass



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Notes:

(1) Results shown are of the adjusted analytical results.

Canada Consumer Product Safety Act (S.C. 2010, c. 21), Consumer Products Containing Lead (Contact with Mouth) Regulations (SOR/2018-83) - Total Lead Content

Test Method: With reference to CPSC-CH-E1001-08.3 / CPSC-CH-E1002-08.3 / CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A2	A7	A11
Lead(Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A1+A5+A6	A3+A4
Lead(Pb)	90	mg/kg	20	ND	ND
Conclusion				Pass	Pass

Canada Consumer Product Safety Act (S.C. 2010, c. 21), Phthalates Regulations (SOR/2016-188) - Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A3/A2+A4
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	0.1	%	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.005	ND
Conclusion					Pass

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A8+A9/A10
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND
Conclusion					Pass



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Canada Consumer Product Safety Act-Surface Coating Materials Regulations SOR/2016-193 and its amendment SOR/2022-122 - Total Lead in surface coating materials

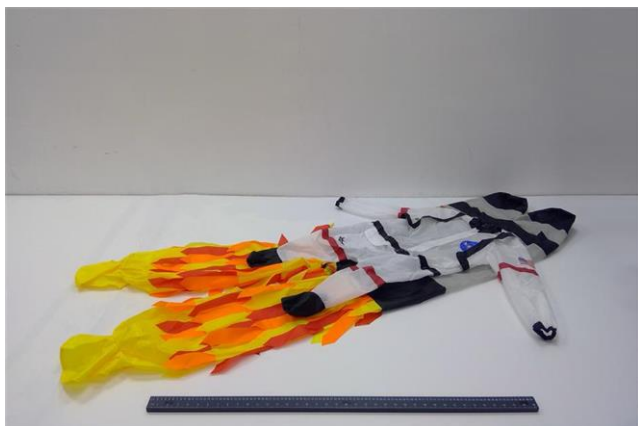
Test Method: With reference to CPSC-CH-E1002-08.3 / CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A2
Lead(Pb)	90	mg/kg	20	ND
Conclusion				Pass

Remark:

- Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
- The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the report:
N/A(NA) = Not Applicable N/C(NC) = Not Conducted N/T(NT) = Not Tested
** = Visual Examination SE = Self-Extinguishing IBE = Ignite But Self-Extinguished
SE within 50mm = Self-extinguished within 50 mm of flame application DNI = Did Not Ignite
- Only applicable clauses or requested testing items were shown.
- Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

Sample Picture (As received)



SGS authenticate the photo on original report only

End of Report



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