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**Laboratory #:** 897426-22  
**Report Date:** October 24, 2022  
**Received Date:** October 14, 2022

**Attention:** Daniel Marginson  
**Specimen:** Consumer Products

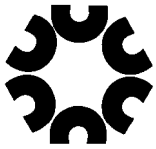
### CERTIFICATE OF ANALYSIS

Two (2) children's product specimens were submitted for representative testing to be analyzed as per ASTM F963-17, for several parameters and for Phthalate Content, in order to determine compliance with the US Consumer Products Safety Improvement Act of 2008. The submitted specimens were identified as follows:



This report is subject to the following terms and conditions: 1. This report relates only to the specimen provided and there is no representation or warranty that it applies to similar substances or materials or the bulk of which the specimen is a part. 2. The content of this report is for the information of the customer identified above only and it shall not be reprinted, published or disclosed to any other party except in full. Prior written consent from Cambridge Materials Testing Limited is required. 3. The name Cambridge Materials Testing Limited shall not be used in connection with the specimen reported on or any substance or materials similar to that specimen without the prior written consent of Cambridge Materials Testing Limited. 4. Neither Cambridge Materials Testing Limited nor any of its employees shall be responsible or held liable for any claims, loss or damages arising in consequence of reliance on this report or any default, error or omission in its preparation or the tests conducted. 5. Specimens are retained 6 months, test reports and test data are retained 10 years from date of final test report and then disposed of, unless instructed otherwise in writing. 6. When making a statement of conformity to a specification or standard the report will make the statement of conformity based on the absolute value of the test result. Test Report Template Revision April 18, 2022

Per Steve Brown  
Authorized By Stephen Brown  
Per Iwona Sawczak  
Technician, Iwona Sawczak



**STANDARDS**

US Consumer Products Safety Improvement Act of 2008:	Section 101 Products containing Lead Section 106 Mandatory Toy Safety Standards Section 108 Products containing Phthalates
ASTM F963-17	Standard Consumer Safety Specification for Toy Safety

**TEST METHODS**

CPSC-CH-E1002-08.3	Standard Operating Procedure for Determining Total Lead (Pb) in Nonmetal Children's Products
CPSC-CH-C1001-09.4	Standard Operating Procedure for Determination of Phthalates
16 CFR 1500.44	Method for Determining Extremely Flammable and Flammable Solids
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 Age
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
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.



**PHYSICAL/MECHANICAL**

As per ASTM F963-17 Sections 4.5 – 4.39

<b><u>ASTM F963-17 Section</u></b>	<b><u>Test</u></b>	<b><u>Compliant (Pass/Fail)</u></b>
		<b><u>Specimen #1</u></b>
4.5	Sound Producing Toys	N/A
4.6	Small Objects	Pass
4.7	Accessible Edges	Pass
4.8	Projections	N/A
4.9	Accessible Points	Pass
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners	N/A
4.12	Plastic Film	N/A
4.13	Folding Mechanisms and Hinges	N/A
4.14	Cords, Straps, and Elastics	N/A
4.15	Stability and Over-Load Requirements	Pass
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearance, and Accessibility of Mechanisms	N/A
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	N/A
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag Type Toys	N/A
4.28	Stroller and Carriage Toys	N/A
4.29	Art Materials	N/A
4.30	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys with Spherical Ends	N/A
4.33	Marbles	N/A
4.34	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

**Note:** Results for ASTM F963-17 for Specimen #1 also represent Specimen #2.

**Testing Parameters (6+ Years):**

Impact Test	16 CFR 1500.51	Tip-over Test (3 times) Asset #1798	
Torque Test	16 CFR 1500.53	0.45 Nm	Asset# 1446
Tension Test	16 CFR 1500.53	66.8 N	Asset #1108
Compression Test	16 CFR 1500.53	133.5 N	Asset #1108



**FLAMMABILITY**

The submitted specimens were analyzed in accordance with 16 CFR 1500.44

**RESULTS**

<u>Specimen #</u>	<u>Burn Rate (mm/s)</u>	<u>Requirement (mm/s)</u>	<u>Pass / Fail</u>
1	0.9	2.5 Max.	<b>PASS</b>
2	0.9	2.5 Max.	<b>PASS</b>

**Note:** Results for Flammability, for Specimen #1, are represented by Laboratory Number 897403 (specimen #1)

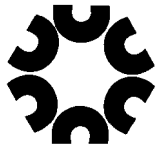
**TOTAL HEAVY ELEMENT CONTENT SCREENING**

The submitted specimen was analyzed in accordance with ASTM F963-17 section 4.3.5 as per section 8.3.1 using test method CPSC-CH-E1001-08.3 and CPSC-CH-E1002-08.3.

<u>SPECIMEN #</u>	Total Antimony (ppm)	Total Arsenic (ppm)	Total Barium (ppm)	Total Cadmium (ppm)	Total Chromium (ppm)	Total Lead (ppm)	Total Mercury (ppm)	Total Selenium (ppm)	<u>RESULT (Pass/Fail)</u>
1) Blue sled substrate	N.D. (<1)	N.D. (<1)	N.D. (<1)	N.D. (<1)	N.D. (<1)	N.D. (<10)	N.D. (<1)	N.D. (<1)	<b>Pass</b>
2) Black sled substrate	N.D. (<1)	N.D. (<1)	1	N.D. (<1)	1	N.D. (<10)	N.D. (<1)	N.D. (<1)	<b>Pass</b>
<b>ASTM F963-17 Requirement Maximum-Soluble Elements in Surface Coatings &amp; Substrates</b>	<b>60</b>	<b>25</b>	<b>1000</b>	<b>75</b>	<b>60</b>	<b>90</b>	<b>60</b>	<b>500</b>	-
<b>ASTM F963-17 Requirement Maximum-Total Lead in Surface Coatings</b>	N/A					<b>90</b>	N/A		-
<b>ASTM F963-17 Requirement Maximum-Total Lead in Substrates</b>	N/A					<b>100</b>	N/A		-

N.D. = Not detected.

**Note:** Results for Total Heavy Element Content Screening, for Specimen #1, are represented by Laboratory Number 897403 (specimen #1)



**PHTHALATE CONTENT**

The submitted specimens were extracted in Tetrahydrofuran (THF) solvent, followed by cyclohexane, and then analyzed using a Gas Chromatograph equipped with a Mass Detector as per CPSC-CH-C1001-09.4.

Specimen #	Phthalate Content										Result	
	DIBP	DBP	DPENP	DHEXP	BBP	DEHP	DCHP	DINP	DIDP	DnOP		
1) Blue sled substrate	N.D. (<0.015%)	N.D. (<0.015%)	N.D. (<0.015%)	N.D. (<0.015%)	N.D. (<0.015%)	N.D. (<0.015%)	N.D. (<0.015%)	N.D. (<0.015%)	N.D. (<0.060%)	N.D. (<0.060%)	N.D. (<0.015%)	Pass
2) Black sled substrate	N.D. (<0.015%)	N.D. (<0.015%)	N.D. (<0.015%)	N.D. (<0.015%)	N.D. (<0.015%)	N.D. (<0.015%)	N.D. (<0.015%)	N.D. (<0.015%)	N.D. (<0.060%)	N.D. (<0.060%)	N.D. (<0.015%)	Pass
<b>Limit as per Phthalates Section 108 of the Consumer Product Safety Improvement Act of 2008 (CPSIA) and Canada Consumer Product Safety Act (CCPSA). 0.1 (% w/w), max.</b>												

N.D. = Not detected.

**Abbreviations**

<b>DIBP</b>	di-iso-butyl phthalate	<b>DEHP</b>	di-(2-ethylhexyl) phthalate
<b>DBP</b>	dibutyl phthalate	<b>DCHP</b>	di-cyclo-hexyl phthalate
<b>DPENP</b>	di-n-pentyl phthalate	<b>DINP</b>	diisononyl phthalate
<b>DHEXP</b>	di-n-hexyl phthalate	<b>DIDP</b>	diisodecyl phthalate
<b>BBP</b>	benzyl butyl phthalate	<b>DnOP</b>	di-n-octyl phthalate

**Note:** Results for Phthalate Content, for Specimen #1, are represented by Laboratory Number 897403 (Specimen #1)