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Laboratory #: 897427-22
Report Date: October 24, 2022
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Attention: Daniel Marginson
Specimen: Consumer Products

CERTIFICATE OF ANALYSIS

Four (4) 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:

<p>#1: 22" x 48" Manitou X Orange (T48)</p> 	<p>#2: 22" x 48" Manitou X Red (T48)</p> 	<p>#3: 22" x 48" Manitou X Blue (T48)</p> 	<p>#4: 22" x 48" Manitou X Green (T48)</p> 
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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

<u>ASTM F963-17 Section</u>	<u>Test</u>	<u>Compliant (Pass/Fail)</u> <u>Specimen #1</u>
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 Specimens #2, #3 and #4.

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	1.0	2.5 Max.	PASS
2	0.9	2.5 Max.	PASS
3	0.9	2.5 Max.	PASS
4	1.0	2.5 Max.	PASS

Note: Results for Flammability for Specimen #1 is represented by Laboratory Number 897403 (Specimen #3)

Note: Results for Flammability for Specimen #2 is represented by Laboratory Number 897403 (Specimen #2)

Note: Results for Flammability for Specimen #3 is represented by Laboratory Number 897403 (Specimen #1)

Note: Results for Flammability for Specimen #4 is represented by Laboratory Number 896740 (Specimen #1)



TOTAL HEAVY ELEMENT CONTENT SCREENING

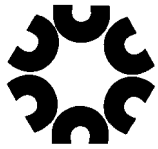
The submitted specimen was analyzed in accordance with ASTM F963-17 section 4.3.5 as per section 8.3.1 using test method CPSC-CH-E1001-08.3 and CPSC-CH-E1002-08.3.

SPECIMEN #	Total Antimony (ppm)	Total Arsenic (ppm)	Total Barium (ppm)	Total Cadmium (ppm)	Total Chromium (ppm)	Total Lead (ppm)	Total Mercury (ppm)	Total Selenium (ppm)	RESULT (Pass/Fail)
Composite of: 1) Orange sled substrate 2) Red Sled Substrate 3) 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)	Pass
Composite including: 4) Green sled substrate	N.D. (<1)	N.D. (<1)	21	N.D. (<1)	N.D. (<1)	N.D. (<10)	N.D. (<1)	N.D. (<1)	Pass
ASTM F963-17 Requirement Maximum-Soluble Elements in Surface Coatings & Substrates	60	25	1000	75	60	90	60	500	-
ASTM F963-17 Requirement Maximum-Total Lead in Surface Coatings	N/A					90	N/A		-
ASTM F963-17 Requirement Maximum-Total Lead in Substrates	N/A					100	N/A		-

N.D. = Not detected.

Note: Results for Total Heavy Element Content Screening for Specimen #1, #2 and #3 are represented by Laboratory Number 897403 (specimens #3, #2, #1, respectively)

Note: Results for Total Heavy Element Content Screening for Specimen #4 are represented by Laboratory Number 896740 (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		
Composite of: 1) Orange sled substrate 2) Red Sled Substrate 3) 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
4) Green 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
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.												

N.D. = Not detected.

Abbreviations

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

Note: Results for Phthalate Content, for Specimens #1, #2 and #3, are represented by Laboratory Number 897403 (specimens #3, #2, #1, respectively)

Note: Results for Phthalate Content, for Specimen #4, are represented by Laboratory Number 896740 (Specimen #1)