

The Step 2 Company, LLC
10010 Aurora Hudson RD
Streetsboro, OH 44241
United States

Testing ID: 441499
Order Number: 5194426
Receipt Date: June 17, 2024
Test Report Date: July 01, 2024

Attention: Alexander Murph

Sample Description:	My First Advent Calendar	
Sample/ Style No:	441499	
Ref No:	240609111	
Color:	Brown, White, Red and Green	
Manufacturer:	The Step 2 Company, LLC	
Country of Origin:	United States	
Labeled Age Grading:	18+ Months	
SGS Assessed Age: (based on CR 14379/ ASTM F963)	18+ Months	

TEST(S) PERFORMED:	TEST METHOD(S):	RESULT(S):
Safety of Toys	ASTM F963-23	PASS
Flammability of Solids	16 CFR 1500.44	PASS
Lead in accessible substrate materials	CPSIA section 101(a)(2)	PASS
Standard Consumer Safety Specification for Toy Safety	ASTM F963-23 Clause 4.3.5	-
a) Total Lead in Substrate Material		PASS
b) Soluble heavy metals in substrate material		PASS
Phthalates	CPSIA section 108	PASS

Additional Testing Notes: None

Summary of documentation provided by vendors/suppliers for the compliance evaluation:

Part #	Reference Report	Report Date	Testing Completed
142516	T52410271107TY	Mar 25, 2024	ASTM F963-17, Physical, Mechanical, Flammability, Lead, and Phthalates.
142517	T52410271110TY	Mar 25, 2024	ASTM F963-17, Physical, Mechanical, Flammability, Lead, and Phthalates.
193713	T52410300730TC	Jun 14, 2024	ASTM F963-23, Lead, and Phthalates.

Signed for and on behalf of SGS North America, Inc.

Prepared By:

Brian Murphy

Claudia Nascimento

Brian Murphy
Laboratory Supervisor, Chemistry Laboratory

Claudia Santos Nascimento
Technical Report Writer, Chemistry Laboratory

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Photograph Section:

Submitted Samples	
	
Sample	Packaging
	
Date Code	UPC

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Appropriate Age Grade Determination

The Appropriate Age Grade is determined with reference to the Age Determination Guidelines of the Consumer Product Safety Commission (CPSC); and the ASTM F963-23, "Standard Consumer Safety Specification on Toy Safety". Annex A1

- The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.
- If the client does not specify an age grade for testing or request SGS Consumer Testing Services, Inc. to determine an appropriate age grade, the labeled age grade was used for testing.

Use and Abuse Tests

The samples were tested in accordance with sections 8.5 - 8.12 whenever applicable				
Test		Test Parameters		
Age Group		0-18 months	19-36 months	37-96 months
Impact Test (8.7)	Drop Test (8.7.1)	4.5 feet x 10 times	3.0 feet x 4 times	3.0 feet x 4 times
	Tip Over Test (8.7.2)	3 Times		
	Tumble Test (8.7.3)	6 steps, 7 in high each		
Torque Test (8.8)		2 in-lbf.	3 in-lbf.	4 in-lbf.
Tension Test for Removal of Component (8.9)		10 lbf.	15 lbf.	15 lbf.
Compression (8.10)		20 lbf.	25 lbf.	30 lbf.
Flexure Test (8.12)		10 lbf.	15 lbf.	15 lbf.

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Physical and Mechanical Hazards: Toy Safety, ASTM F963-23**Procedure (Summary):**

The submitted samples were tested for compliance with the requirements of ASTM F963-23, for Toy Safety.

Sample I.D.:	My First Advent Calendar		
Age Label on Product:	18+ Months	Age Applied in Testing:	18+ Months

		Pass	Fail	N/A	Not Performed
4.	Safety Requirements				
4.1	Material Quality	X			
4.2	Flammability – See 16 CFR 1500.44 Results for Details	X			
4.3	Toxicology				
4.3.1	Hazardous Substances			X	
4.3.2	Manufacturing and Packaging of Food			X	
4.3.3	Indirect Food Additives			X	
4.3.4	Cosmetics			X	
4.3.5	Heavy Elements	X			
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels & Powders			X	
4.3.7	Stuffing Materials			X	
4.3.8	DEHP (DOP)	X			
4.4	Electrical/Thermal Energy			X	
4.5	Sound Producing Toys			X	
4.6.1	Toys Intended for Children Under 36 Months	X			
4.6.2	Mouth Actuated Toys			X	
4.6.3	Small Parts Labeling from 3 – 6 years			X	
4.7	Accessible Edges	X			
4.8	Projections			X	
4.9	Accessible Points	X			
4.10	Wires or Rods			X	
4.11	Nails and Fasteners	X			
4.12	Plastic Film	X			
4.13	Folding Mechanisms and Hinges			X	
4.14	Cords, Straps and Elastics			X	
4.15	Stability and Over-Load Requirements			X	
4.16	Confined Spaces			X	
4.17	Wheels, Tires, and Axles			X	
4.18	Holes, Clearance, and Accessibility of Mechanisms			X	
4.19	Simulated Protective Devices			X	
4.20	Pacifiers			X	
4.21	Projectile Toys			X	
4.22	Teethers and Teething Toys			X	
4.23	Rattles			X	
4.24	Squeeze Toys			X	
4.25	Battery-Operated Toys			X	

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		Pass	Fail	N/A	Not Performed
4.26	Toys Intended to be Attached to a Crib or Playpen			X	
4.27	Stuffed and Beanbag-Type Toys			X	
4.28	Stroller and Carriage Toys			X	
4.29	Art Materials			X	
4.30	Toy Gun Marking			X	
4.31	Balloons			X	
4.32	Certain Toys with Nearly Spherical Ends			X	
4.33	Marbles			X	
4.34	Balls			X	
4.35	Pompoms			X	
4.36	Hemispheric-Shaped Objects			X	
4.37	Yo-Yo Elastic Tether Toys			X	
4.38	Magnets			X	
4.39	Jaw Entrapment			X	
4.40	Expanding Materials			X	
4.41	Toy Chests			X	

		Pass	Fail	N/A	Not Performed
	Safety Labeling Requirements				
CPSIA Sec. 103	Tracking Label	X			
CPSIA Sec. 104	Product Registration Card			X	

		Pass	Fail	N/A	Not Performed
5	Safety Labeling Requirements				
5.1	Federal Government Requirements	X			
5.2	Age Grading Labeling	X			
5.3	Safety Labeling Requirements	X			
5.4	Aquatic Toys			X	
5.5	Crib and Playpen Toys			X	
5.6	Mobiles			X	
5.7	Stroller and Carriage Toys			X	
5.8	Toys Intended to be Assembled by an Adult	X			
5.9	Simulated Protective Devices			X	
5.10	Toys with Functional Sharp Edges Or Points			X	
5.11	Small Objects, Small Balls, Marbles and Balloons			X	
5.12	Art Materials			X	
5.13	Electric Toys			X	
5.14	Battery Operated			X	
5.15	Promotional Material	X			
5.16	Magnets			X	

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		Pass	Fail	N/A	Not Performed
6	Instructional Literature				
6.1	Definition and Description	X			
6.2	Crib and Playpen Toys			X	
6.3	Mobiles			X	
6.4	Toys Intended to be Assembled By an Adult	X			
6.5	Battery Operated Toys			X	
6.6	Battery Powered Ride-on Toys			X	
6.7	Toys in Contact with Food			X	
6.8	Toy Chests Instructions			X	
6.9	Tool to Access Batteries			X	

		Pass	Fail	N/A	Not Performed
7	Producer's Markings				
7.1	Name and Address of Producer or Distributor	X			
7.2	Battery-Powered Ride-On Toys			X	
7.3	Toy Chests			X	

		Pass	Fail	N/A	Not Performed
8	Test Methods				
8.5	Normal Use Testing	X			
8.5.1	Washable toys			X	
8.7	Impact Tests	X			
8.8	Torque Testing for Removal of Components	X			
8.9	Tension Testing for Removal of Components	X			
8.10	Compression Testing	X			
8.11	Tests for Tire Removal and Wheel/Axle Assemblies			X	
8.12	Flexure Test			X	
8.13	Test for Mouth-Actuated Toys			X	
8.14	Projectiles			X	
8.15	Test for Stability of Ride-On Toys or Toy Seats			X	
8.16	Tension and Torque Test for Pompoms			X	
8.17	Stalled Motor Test			X	
8.18	Test for Battery Powered Ride-On Toys			X	
8.19	Tests for Toys that Contain Secondary Cells or Batteries			X	
8.20	Tests for Toys Which Produce Noise			X	
8.21	Dynamic Strength Tests for Wheeled Ride-On Toys			X	
8.22	Packaging Film Thickness	X			
8.23	Test for Loop and Cord			X	
8.24	Yo-Yo Elastic Tether Toy			X	
8.25	Magnet Testing			X	
8.26	Test Methods for Locking Mechanisms			X	
8.27	Tests for Toy Chest Lids and Closures			X	
8.28	Test for Overload of Ride-On Toys and Toy Seats			X	

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		Pass	Fail	N/A	Not Performed
8.29	Stuffing Materials Evaluation			X	
8.30	Expanding Materials			X	

Conclusion:

When tested as specified, the submitted sample **does comply** with the requirements of ASTM F963-23 for toy safety.

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Flammability Test: Federal Hazardous Substances Act and ASTM F963-23**Procedure:**

The method of testing was that described in 16 CFR 1500.44 of the Federal Hazardous Substances Act and ASTM F963-23, Section 4.2 for rigid and pliable solids.

Requirement:

A material is considered "flammable" if it ignites and burns with a self-sustained flame at a rate greater than 0.1 inches per second along its major axis.

Sample I.D.:	My First Advent Calendar		
Age Label on Product:	18+ Months	Age Applied in Testing:	18+ Months

Results:

	<u>Area of Initial Flame Contact</u>	<u>Burn Length (inches)</u>	<u>Time (seconds)</u>	<u>Burn Rate (inches/second)</u>	<u>Results</u>
Burn 1	Red Door	0.3	60	0.005	PASS
Burn 2	Green Plastic	--	5	DNI	PASS

*DNI = Did not Ignite

**IBE = Ignited but Extinguished

Conclusion:

Based upon the results of the test reported above, the submitted sample **does comply** with the requirements of the U.S. Federal Hazardous Substances Act, 16 CFR 1500.44 and ASTM F963-23.

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Chemical Analysis:**1. CPSIA section 101(a)(2) – Lead in accessible substrate materials**

Test Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3. Analysis was performed by ICP-OES and/or ICP-MS and/or HD-XRF.

Test Method (metal materials): With reference to CPSC-CH-E1001-08.3. Analysis was performed by ICP-OES and/or ICP-MS and/or HD-XRF.

Test Item	Result (ppm)			Reporting Limit (ppm)	Permissible Limit (ppm)**
	1	2	3		
Lead (Pb)	ND	ND	ND	20	100
Comment	PASS	PASS	PASS	--	--

Test Item	Result (ppm)			Reporting Limit (ppm)	Permissible Limit (ppm)**
	4	5	6		
Lead (Pb)	ND	ND	ND	20	100
Comment	PASS	PASS	PASS	--	--

Test Item	Result (ppm)		Reporting Limit (ppm)	Permissible Limit (ppm)**
	7+8+9	10		
Lead (Pb)	ND	ND	20	100
Comment	PASS	PASS	--	--

** Limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)

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Sample Description:

Associated Part Number	Part Description	Reference Report ID
1. 120152	PIGMENTED RESIN-TOUCHDOWN BROWN	5157355-CH-02
2. 120501	PIGMENTED RESIN - SNOWMAN WHITE (G89-8729-MA)	5129720-CH-02
3. 153044	MPI - 2.3 POLY / 4.5 MIL LAYFLAT / 1 POLY	5149481-CH-01
4. 161298	VENT PLUG, CLEAR, NO DATE, 2500/ctn	5183170-CH-01
5. 161437	VENT PLUG, TAN, WEEKLY DATED, 2500pcs/ctn	5183170-CH-01
6. 180497	(S) SCREW, # 8 X 1 1/4 in. PHIL (3000pc/bx)	5183171-CH-01
7. 163444A02X	BIN, 2.75 x 2 x 2.75 - IM, STYLE 6, RED	-
8. 163444A03X	BIN, 2.75 x 2 x 2.75 - IM, STYLE 6, GREEN	-
9. 163444A04X	BIN, 2.75 x 2 x 2.75 - IM, STYLE 6, GOLD	-
10. 181922	(S) FASTENER, .25 DIA X .75 LONG (1500pc/bx)	-

- Note:
1. ppm = parts per million
 2. mg/kg = ppm
 3. 1% = 10000 ppm (mg/kg)
 4. ND = Not Detected, reported when the reading is less than the reporting limit value.
 5. Composite test has been performed and the result is calculated using the minimum sample weight.

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2. Standard Consumer Safety Specification for Toy Safety, ASTM F963-23 Clause 4.3.5*a) Total lead in substrate material*

Test Method: With reference to CPSC Test Method: CPSC-CH-E1002-08.3 (for non-metal materials) and CPSC-CH-E1001-08.3 (for metal materials). Analysis was performed by ICP-OES and/or ICP-MS.

Test Item	Result (ppm)			Reporting Limit (ppm)	Permissible Limit (ppm)
	1	2	3		
Lead (Pb)	ND	ND	ND	20	100
Comment	PASS	PASS	PASS	--	--

Test Item	Result (ppm)			Reporting Limit (ppm)	Permissible Limit (ppm)
	4	5	6		
Lead (Pb)	ND	ND	ND	20	100
Comment	PASS	PASS	PASS	--	--

Test Item	Result (ppm)		Reporting Limit (ppm)	Permissible Limit (ppm)
	7+8+9	10		
Lead (Pb)	ND	ND	20	100
Comment	PASS	PASS	--	--

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Sample Description:

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2. 120501	PIGMENTED RESIN - SNOWMAN WHITE (G89-8729-MA)	5129720-CH-02
3. 153044	MPI - 2.3 POLY / 4.5 MIL LAYFLAT / 1 POLY	5149481-CH-01
4. 161298	VENT PLUG, CLEAR, NO DATE, 2500/ctn	5183170-CH-01
5. 161437	VENT PLUG, TAN, WEEKLY DATED, 2500pcs/ctn	5183170-CH-01
6. 180497	(S) SCREW, # 8 X 1 1/4 in. PHIL (3000pc/bx)	5183171-CH-01
7. 163444A02X	BIN, 2.75 x 2 x 2.75 - IM, STYLE 6, RED	-
8. 163444A03X	BIN, 2.75 x 2 x 2.75 - IM, STYLE 6, GREEN	-
9. 163444A04X	BIN, 2.75 x 2 x 2.75 - IM, STYLE 6, GOLD	-
10. 181922	(S) FASTENER, .25 DIA X .75 LONG (1500pc/bx)	-

- Note:
1. % = Percentage by Weight
 2. 1% = 10000 mg/kg
 3. ND = Not Detected
 4. Composite test has been performed and the result is calculated using the minimum sample weight.

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b) Soluble heavy metals in substrate materials

Method: With reference to ASTM F963-23 Clause 8.3.1 – Total Element Content Screening (CPSC-CH-E1002-08.3). Analysis was performed by Inductively Coupled Argon Plasma – Optical Emission Spectrometry and/or ICP-MS.

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Soluble Limit (mg/kg)
	1	2	3		
Total Lead (Pb)	ND	ND	ND	20	90
Total Antimony (Sb)	ND	ND	ND	20	60
Total Arsenic (As)	ND	ND	ND	20	25
Total Barium (Ba)	ND	ND	ND	100	1000
Total Cadmium (Cd)	ND	ND	ND	20	75
Total Chromium (Cr)	ND	ND	ND	20	60
Total Mercury (Hg)	ND	ND	ND	20	60
Total Selenium (Se)	ND	ND	ND	20	500
Comment	PASS	PASS	PASS	--	--

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Soluble Limit (mg/kg)
	4	5	6+7+8		
Total Lead (Pb)	ND	ND	ND	20	90
Total Antimony (Sb)	39.4	39.4	ND	20	60
Total Arsenic (As)	ND	ND	ND	20	25
Total Barium (Ba)	ND	ND	ND	100	1000
Total Cadmium (Cd)	ND	ND	ND	20	75
Total Chromium (Cr)	ND	ND	ND	20	60
Total Mercury (Hg)	ND	ND	ND	20	60
Total Selenium (Se)	ND	ND	ND	20	500
Comment	PASS	PASS	PASS	--	--

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Soluble Limit (mg/kg)
	9		
Total Lead (Pb)	ND	20	90
Total Antimony (Sb)	ND	20	60
Total Arsenic (As)	ND	20	25
Total Barium (Ba)	ND	100	1000
Total Cadmium (Cd)	ND	20	75
Total Chromium (Cr)	ND	20	60
Total Mercury (Hg)	ND	20	60
Total Selenium (Se)	ND	20	500
Comment	PASS	--	--

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Sample Description:

Associated Part Number	Part Description	Reference Report ID
1. 120152	PIGMENTED RESIN-TOUCHDOWN BROWN	5157355-CH-02
2. 120501	PIGMENTED RESIN - SNOWMAN WHITE (G89-8729-MA)	5129720-CH-02
3. 153044	MPI - 2.3 POLY / 4.5 MIL LAYFLAT / 1 POLY	5149481-CH-01
4. 161298	VENT PLUG, CLEAR, NO DATE, 2500/ctn	5183170-CH-01
5. 161437	VENT PLUG, TAN, WEEKLY DATED, 2500pcs/ctn	5183170-CH-01
6. 163444A02X	BIN, 2.75 x 2 x 2.75 - IM, STYLE 6, RED	-
7. 163444A03X	BIN, 2.75 x 2 x 2.75 - IM, STYLE 6, GREEN	-
8. 163444A04X	BIN, 2.75 x 2 x 2.75 - IM, STYLE 6, GOLD	-
9. 181922	(S) FASTENER, .25 DIA X .75 LONG (1500pc/bx)	-

- Note:
1. mg/kg = milligram per kilogram
 2. ND = Not Detected
 3. Composite test has been performed and the result is calculated using the minimum sample weight.

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3. CPSIA Section 108 – Phthalates

Method: With reference to CPSC-CH-C1001-09.4. Analysis was performed by Gas Chromatography / Mass Spectrometry.

Test item	Results (ppm)	Reporting Limit (ppm)	Permissible Limit (ppm)
	1		
Dibutyl Phthalate (DBP)	ND	150	1000
Benzylbutyl Phthalate (BBP)	ND	150	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	ND	150	1000
Diisononyl Phthalate (DINP)	ND	150	1000
Diisobutyl Phthalate (DIBP)	ND	150	1000
Di-n-pentyl Phthalate (DPENP)	ND	150	1000
Di-n-hexyl Phthalate (DnHP)	ND	150	1000
Dicyclohexyl Phthalate (DCHP)	ND	150	1000
Conclusion	PASS	--	--

Sample Description:

Associated Part Number	Part Number	Reference Report ID
1. 153044	MPI - 2.3 POLY / 4.5 MIL LAYFLAT / 1 POLY	5149481-CH-01

- Note:
1. % = percentage by weight
 2. ND = Not Detected
 3. Method Detection Limit = 0.015 %
 4. Composite test has been performed and the result is calculated using the minimum sample weight.

Remark:

When statement of conformity is made, unless the decision rule was mentioned in above specified test items, the decision rule would be based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, w = U95) in ILAC-G8:09/2019 Clause 4.2.3.

"Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band." or "Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%."

"Fail- the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance at the points tested". The specific false reject risk is up to 2.5%.

"Guarded Pass if result is within the uncertainty passing band close to the specification."

"Guarded Fail if the result is within the uncertainty failing band close to the specification."

End of Report

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