



# TEST REPORT

Test Report # 18H-002771 Date of Report Issue: May 16, 2018  
 Date of Sample Received: April 30, 2018 Pages: Page 1 of 19

## CLIENT INFORMATION:

Company: Hit Promotional Products  
 Recipient: Nathan Cotter  
 Recipient Email: ncotter@hitpromo.net



## SAMPLE INFORMATION:

Description:	LED Slingshots	Purchase Order Number:	240787
Assortment:	1 color	Agent:	-
SKU No.:	0711	Country of Origin:	China
Factory No.:	106675	Labeled Age Grade:	-
Country of Distribution:	United States	Recommended Age Grade:	Over 6 years of age
Quantity Submitted:	6 pcs	Tested Age Grade:	Over 6 years of age
Testing Period:	05/08/2018 – 05/16/2018		

## OVERALL RESULT:

**PASS**

Refer to page 2 for test result summary and appropriate notes.

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The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.

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**TEST RESULTS SUMMARY:**

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Soluble Elements in Paints and Similar Surface Coatings
PASS	CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings
PASS	CPSIA Section 101, Total Lead in Substrate Materials
PASS	CPSIA Section 108, Phthalates – Mouthable (DBP, BBP, DEHP, DnOP, DINP, DIDP)
PASS	California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)
PASS	CPSC 16 CFR 1307 Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP) <sup>#</sup>
PASS	US Public Law 104-142 Title II, Mercury-Containing Battery Management Act <sup>#</sup>
PASS	Canadian Toys Regulations SOR/2011-17 as Amended by SOR/2016-195 & SOR/2016-302, Item 23 Leachable Elements in Paints and Surface Coatings
PASS	Canadian Toys Regulations SOR/2011-17 as Amended by SOR/2016-195 & SOR/2016-302, Item 23 Total Lead and Mercury in Paints and Surface Coatings
PASS	Canadian Phthalates Regulations SOR/2016-188, Phthalates (DBP, BBP, DEHP, DnOP, DINP, DIDP) in Mouthable Vinyl Materials
PASS	Canadian Products Containing Mercury Regulations (SOR/2014-254), Total Mercury in Battery <sup>#</sup>
PASS	CPSIA Section 106, Mandatory Toy Safety Standard ASTM F963-17, Mechanical Hazards 16 CFR 1500, Federal Hazardous Substances Act (FHSA), Mechanical Hazards
PASS	16 CFR 1500.44 and ASTM F963-17, Section 4.2, Flammability of Solids
PASS	CPSIA Section 103, Tracking Labels for Children’s Products <sup>#</sup>
PASS	Canadian Toy Regulations SOR/2011-17 as Amended by SOR/2016-195& SOR/2016-302, Mechanical Hazards Requirements
PASS	Canadian Toy Regulations SOR/2011-17 as Amended by SOR/2016-195& SOR/2016-302, Item 21 Celluloid or Cellulose Nitrate

**DETAILED RESULTS:****CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Soluble Elements in Paints and Similar Surface Coatings**

Test Method: ASTM F963-17 Clause 8.3.2  
 Analytical Method: Inductively Coupled Plasma-Mass Spectrometry

Specimen No.	1	---	---	---	---	Soluble Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Soluble Antimony (Sb)	ND	---	---	---	---	60
Soluble Arsenic (As)	ND	---	---	---	---	25
Soluble Barium (Ba)	ND	---	---	---	---	1000
Soluble Cadmium (Cd)	ND	---	---	---	---	75
Soluble Chromium (Cr)	ND	---	---	---	---	60
Soluble Lead (Pb)	ND	---	---	---	---	90
Soluble Mercury (Hg)	ND	---	---	---	---	60
Soluble Selenium (Se)	ND	---	---	---	---	500
<b>Conclusion</b>	PASS	---	---	---	---	

**Note:**

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 2 ppm)

**Remark:**

Test portion of Specimen No. 1 found on single sample was 13.6 mg.

**DETAILED RESULTS:****CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings**

Test Method: CPSC-CH-E-1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	---	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	---	---	---	---	<b>90</b>
<b>Conclusion</b>	PASS	---	---	---	---	

*Note:*

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

**DETAILED RESULTS:****CPSIA Section 101, Total Lead in Substrate Materials**

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2+3+4	5+6	7	8	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	---	<b>100</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	---	

*Note:*

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

**DETAILED RESULTS:****CPSIA Section 108, Phthalates – Mouthable (DBP, BBP, DEHP, DnOP, DINP, DIDP)**

Test Method: CPSC-CH-C1001-09.3

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1	2+3+4	5+6	7	Limit (ppm)
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Dibutyl phthalate (DBP)	84-74-2	LT 280	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	LT 280	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	LT 280	130	ND	ND	1000
Di-n-octyl phthalate (DnOP)	117-84-0	LT 280	ND	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	LT 280	ND	ND	ND	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	LT 280	ND	ND	ND	1000
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

**Note:**

ppm (Parts per million) = mg/kg (Milligrams per kilogram) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 120 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

**DETAILED RESULTS:****California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)**

Test Method: CPSC-CH-C1001-09.3

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1	2+3+4	5+6	7	Limit (ppm)
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Dibutyl phthalate (DBP)	84-74-2	LT 280	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	LT 280	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	LT 280	130	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	LT 280	ND	ND	ND	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	LT 280	ND	ND	ND	1000
Di-n-hexyl phthalate (DnHP)	84-75-3	LT 280	ND	ND	ND	1000
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

**Note:**

ppm (Parts per million) = mg/kg (Milligrams per kilogram) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 120 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

**Remark:**

The specification is quoted from client's requirement.

**DETAILED RESULTS:****CPSC 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)**Test Method: CPSC-CH-C1001-09.3 (Modified)<sup>#</sup>, In-House Method<sup>#</sup>

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1	2+3+4	5+6	7	Limit (ppm)
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Dibutyl phthalate (DBP)	84-74-2	LT 280	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	LT 280	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	LT 280	130	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	LT 280	ND	ND	ND	1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	LT 280	ND	ND	ND	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	LT 280	ND	ND	ND	1000
Diisobutyl phthalate (DIBP)	84-69-5	LT 280	ND	ND	ND	1000
Di-n-pentyl phthalate (DPENP)	131-18-0	LT 280	ND	ND	ND	1000
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

**Note:**

ppm (Parts per million) = mg/kg (Milligrams per kilogram) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 120 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.



**DETAILED RESULTS:****US Public Law 104-142 Title II, Mercury-Containing Battery Management Act**

Test Method: In-House Method#  
 Analytical Method: Atomic Absorption Spectrometry with Cold-Vapor Technique

Button cells

Specimen No.	9	---	---	---	---	Total Limit (mg/cell)
Test Item	Result (mg/cell)	Result (mg/cell)	Result (mg/cell)	Result (mg/cell)	Result (mg/cell)	
Total Mercury (Hg)	ND	---	---	---	---	<b>25</b>
<b>Conclusion</b>	PASS	---	---	---	---	

*Note:*

mg/cell = Milligrams per cell

LT = Less than

ND = Not detected (Reporting Limit = 1 mg/cell)

**DETAILED RESULTS:****Canadian Toys Regulations SOR/2011-17 as Amended by SOR/2016-195 & SOR/2016-302, Item 23  
Leachable Elements in Paints and Surface Coatings**

Test Method: Health Canada Method C-03 (Effective 2014-02-20)

Analytical Method: Inductively Coupled Plasma-Mass Spectrometry

Specimen No.	1	---	---	---	---	Leachable Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Leachable Antimony (Sb)	ND	---	---	---	---	<b>1000</b>
Leachable Arsenic (As)	ND	---	---	---	---	<b>1000</b>
Leachable Barium (Ba)	ND	---	---	---	---	<b>1000</b>
Leachable Cadmium (Cd)	ND	---	---	---	---	<b>1000</b>
Leachable Selenium (Se)	ND	---	---	---	---	<b>1000</b>
<b>Conclusion</b>	PASS	---	---	---	---	

*Note:*

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 50 ppm)

**DETAILED RESULTS:****Canadian Toys Regulations SOR/2011-17 as Amended by SOR/2016-195 & SOR/2016-302, Item 23 Total Lead and Mercury in Paints and Surface Coatings**

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	---	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	---	---	---	---	<b>90</b>
Total Mercury (Hg)	ND	---	---	---	---	<b>10</b>
<b>Conclusion</b>	PASS	---	---	---	---	

*Note:*

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 10 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

**DETAILED RESULTS:****Canadian Phthalates Regulations SOR/2016-188, Phthalates (DBP, BBP, DEHP, DnOP, DINP, DIDP) in Mouthable Vinyl Materials**

Test Method: CPSC-CH-C1001-09.3

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1	5+6	---	---	Limit (ppm)
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Dibutyl phthalate (DBP)	84-74-2	LT 280	ND	---	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	LT 280	ND	---	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	LT 280	ND	---	---	1000
Di-n-octyl phthalate (DnOP)	117-84-0	LT 280	ND	---	---	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	LT 280	ND	---	---	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	LT 280	ND	---	---	1000
<b>Conclusion</b>		PASS	PASS	---	---	

*Note:*

ppm (Parts per million) = mg/kg (Milligrams per kilogram) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 120 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

**DETAILED RESULTS:****Canadian Products Containing Mercury Regulations (SOR/2014-254), Total Mercury in Battery**Test Method: IEC 62321-4:2013<sup>#</sup>

Analytical Method: Atomic Absorption Spectrometry with Cold-Vapor Technique

Specimen No.	9	---	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Mercury (Hg)	ND	---	---	---	---	5
<b>Conclusion</b>	PASS	---	---	---	---	

*Note:*

ppm (Parts per million) = mg/kg (Milligrams per kilogram) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 1 ppm)

**DETAILED RESULTS:****CPSIA Section 106, Mandatory Toy Safety Standard ASTM F963-17, Mechanical Hazards  
16 CFR 1500, Federal Hazardous Substances Act (FHSA), Mechanical Hazards**

Mechanical hazards evaluated as described in 16 CFR 1500.51-1500.53 and ASTM F963-17, as applicable.

Test	Observation	Conclusion
Impact	No Sharp Edge or Sharp Point	PASS
Torque	No Sharp Edge or Sharp Point	PASS
Tension	No Sharp Edge or Sharp Point	PASS

**Other Applicable ASTM F963-17 Sections**

Section	Test	Conclusion
4.1	Material Quality	PASS
4.7	Accessible Edges	PASS
4.9	Accessible Points	PASS
4.11	Nails and Fasteners	PASS
4.21	Projectile Toys	PASS
4.25	Battery Operated Toys	PASS

**16 CFR 1500.44 and ASTM F963-17, Section 4.2, Flammability of Solids**

Test	Observation	Conclusion
Flammability of Solids	The burn rate is less than 0.1 in/sec.	PASS



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**DETAILED RESULTS:**

**CPSIA Section 103, Tracking Labels for Children’s Products#**

Requirement	Observation	Conclusion
Manufacturer or private labeler listed, location & date of manufacture, including batch, run number and/or other identifying characteristics	Information was present.	PASS

**DETAILED RESULTS:****Canadian Toy Regulations SOR/2011-17 as Amended by SOR/2016-195& SOR/2016-302, Mechanical Hazards Requirements**

Test	Observation	Conclusion
Impact	No Sharp Edge or Sharp Point	PASS
Push/Pull	No Sharp Edge or Sharp Point	PASS

Section	Requirement	Conclusion
8	Metal Edges	PASS
9	Wires Frame	PASS
10	Plastic Edges	PASS
13	Fasteners	PASS
16	Projectile Components	PASS
20	Heated Surfaces, Parts or Substances	PASS

**Canadian Toy Regulations SOR/2011-17 as Amended by SOR/2016-195& SOR/2016-302, Item 21 Celluloid or Cellulose Nitrate**

(Method: Visual Observation)

Test	Observation	Conclusion
Cellulose Nitrate	No visual signs of Cellulose Nitrate.	PASS





**DATE CODE PHOTO:**



**P01**



**P02**

**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Multicolor coating	On strap
2	Transparent plastic	Led
3	Black plastic	Switch
4	Yellow plastic	Body/ arrow
5	Transparent PVC	Strap
6	Brown PVC	Rubber band
7	Blue printed white paper with adhesive	Sticker
8	Silvery metal	Screw
9	Dull silvery battery	Button cell

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**SAMPLE PHOTO:**



-End Report-