AT-1500

# TEST REPORT

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|---|---|---|---|
| Test Report # | 17H-004892 | Date of Report Issue: | July 20, 2017 |
| Date of Sample Received: | June 17, 2017 | Pages: | Page 1 of 15 |

**CLIENT INFORMATION:**

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


**SAMPLE INFORMATION:**

| | | | |
|---|---|---|---|
| Description: | Glow In The Dark Fidget Spinner | | |
| Assortment: | 1 color | Purchase Order Number: | 209352 |
| SKU No.: | 0763 | Agent: | Growth-Sonic |
| Factory No.: | 127651 | Country of Origin: | China |
| Country of Distribution: | United States | Labeled Age Grade: | - |
| Quantity Submitted: | 5 pcs | Requested Age Grade: | Over 5 years of age |
| Testing Period: | 06/17/2017 – 06/23/2017<br>07/18/2017 – 07/20/2017 | Tested Age Grade: | Over 5 years of age |

**OVERALL RESULT:** **PASS**

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

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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 F963-16 Toy Safety, Clause 4.3.5 Soluble Elements in Paints and Similar Surface Coatings |
| PASS | CPSIA Section 106 & ASTM F963-16 Toy Safety, Clause 4.3.5 Total Elements Screening in Substrate Materials |
| 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 | 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 | CPSIA Section 106, Mandatory Toy Safety Standard ASTM F963-16, Mechanical Hazards 16 CFR 1500, Federal Hazardous Substances Act (FHSA), Mechanical Hazards |
| PASS | 16 CFR 1500.44 and ASTM F963-16, Section 4.2, Flammability of Solids |
| PASS | CPSIA Section 103, Tracking Labels for Children's Products[#] |
| 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 F963-16 Toy Safety, Clause 4.3.5 Soluble Elements in Paints and Similar Surface Coatings**

Test Method: ASTM F963-16 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) | 3 | --- | --- | --- | --- | **1000** |
| Soluble Cadmium (Cd) | ND | --- | --- | --- | --- | **75** |
| Soluble Chromium (Cr) | 2 | --- | --- | --- | --- | **60** |
| Soluble Lead (Pb) | ND | --- | --- | --- | --- | **90** |
| Soluble Mercury (Hg) | ND | --- | --- | --- | --- | **60** |
| Soluble Selenium (Se) | ND | --- | --- | --- | --- | **500** |
| **Conclusion** | PASS | --- | --- | --- | --- | |

*Note:*
ppm (Parts per million) = mg/kg (Milligrams per kilogram)
LT = Less than
ND = Not detected (Reporting Limit = 2 ppm)

*Remark:*
Specimen No. 7 was not tested due to specimen mass found on single sample less than 10 mg.

**DETAILED RESULTS:**

**CPSIA Section 106 & ASTM F963-16 Toy Safety, Clause 4.3.5 Total Elements Screening in Substrate Materials**

Test Method: ASTM F963-16 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Substrate Materials Other Than Modeling Clay

| Specimen No. | 2 | 3 | --- | --- | --- | **Soluble** |
|---|---|---|---|---|---|---|
| Test Item | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | **Limit (ppm)** |
| Total Antimony (Sb) | ND | ND | --- | --- | --- | **60** |
| Total Arsenic (As) | ND | ND | --- | --- | --- | **25** |
| Total Barium (Ba) | ND | ND | --- | --- | --- | **1000** |
| Total Cadmium (Cd) | ND | ND | --- | --- | --- | **75** |
| Total Chromium (Cr) | ND | 24 | --- | --- | --- | **60** |
| Total Lead (Pb) | ND | ND | --- | --- | --- | **90** |
| Total Mercury (Hg) | ND | ND | --- | --- | --- | **60** |
| Total Selenium (Se) | ND | 370 | --- | --- | --- | **500** |
| **Conclusion** | PASS | PASS | --- | --- | --- | |

*Note:*
ppm (Parts per million) = mg/kg (Milligrams per kilogram)
LT = Less than
ND = Not detected (Reporting Limit: Sb, As, Ba, Cd, Cr, Pb, Hg = 20 ppm; Se = 50 ppm)
Composite results are based on specimen of least mass resulting in highest potential concentration.

*Remark:*
The total heavy metals screening results do not exceed the soluble heavy metal limits, therefore, further soluble analyses were not conducted.

**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 | 7 | --- | --- | --- | **Total** |
|---|---|---|---|---|---|---|
| Test Item | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | **Limit (ppm)** |
| Total Lead (Pb) | 25 | ND | --- | --- | --- | **90** |
| **Conclusion** | 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 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 | **Total** |
|---|---|---|---|---|---|---|
| Test Item | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | **Limit (ppm)** |
| Total Lead (Pb) | ND | ND | ND | ND | ND | **100** |
| **Conclusion** | PASS | 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 | 7 | --- | |
|---|---|---|---|---|---|---|
| Test Item | CAS No. | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | **Limit (ppm)** |
| Dibutyl phthalate (DBP) | 84-74-2 | ND | ND | ND | --- | **1000** |
| Benzyl butyl phthalate (BBP) | 85-68-7 | ND | ND | ND | --- | **1000** |
| Di-(2-ethylhexyl) phthalate (DEHP) | 117-81-7 | ND | ND | ND | --- | **1000** |
| Di-n-octyl phthalate (DnOP) | 117-84-0 | ND | ND | ND | --- | **1000** |
| Diisononyl phthalate (DINP) | 28553-12-0<br>68515-48-0 | ND | ND | ND | --- | **1000** |
| Diisodecyl phthalate (DIDP) | 26761-40-0<br>68515-49-1 | ND | ND | ND | --- | **1000** |
| **Conclusion** | | 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 | 7 | --- | |
|---|---|---|---|---|---|---|
| Test Item | CAS No. | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | **Limit (ppm)** |
| Dibutyl phthalate (DBP) | 84-74-2 | ND | ND | ND | --- | **1000** |
| Benzyl butyl phthalate (BBP) | 85-68-7 | ND | ND | ND | --- | **1000** |
| Di-(2-ethylhexyl) phthalate (DEHP) | 117-81-7 | ND | ND | ND | --- | **1000** |
| Diisononyl phthalate (DINP) | 28553-12-0<br>68515-48-0 | ND | ND | ND | --- | **1000** |
| Diisodecyl phthalate (DIDP) | 26761-40-0<br>68515-49-1 | ND | ND | ND | --- | **1000** |
| Di-n-hexyl phthalate (DnHP) | 84-75-3 | ND | ND | ND | --- | **1000** |
| **Conclusion** | | 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:**

**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 | 7 | --- | --- | --- | **Leachable** |
|---|---|---|---|---|---|---|
| Test Item | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | **Limit (ppm)** |
| Leachable Antimony (Sb) | ND | ND | --- | --- | --- | **1000** |
| Leachable Arsenic (As) | ND | ND | --- | --- | --- | **1000** |
| Leachable Barium (Ba) | ND | ND | --- | --- | --- | **1000** |
| Leachable Cadmium (Cd) | ND | ND | --- | --- | --- | **1000** |
| Leachable Selenium (Se) | ND | ND | --- | --- | --- | **1000** |
| **Conclusion** | PASS | 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 F963-11 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 1 | 7 | --- | --- | --- | **Total** |
|---|---|---|---|---|---|---|
| Test Item | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | **Limit (ppm)** |
| Total Lead (Pb) | ND | 12 | --- | --- | --- | **90** |
| Total Mercury (Hg) | ND | ND | --- | --- | --- | **10** |
| **Conclusion** | PASS | 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:**

**CPSIA Section 106, Mandatory Toy Safety Standard ASTM F963-16, 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 F963-16, 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 F963-16 Sections**

| Section | Test | Conclusion |
|---|---|---|
| 4.1 | Material Quality | PASS |
| 4.7 | Accessible Edges | PASS |
| 4.9 | Accessible Points | PASS |

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

| Test | Observation | Conclusion |
|---|---|---|
| Flammability of Solids | No Ignition | PASS |

**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 |
| 10 | Plastic Edges | 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 |

**SPECIMEN DESCRIPTION:**

| Specimen No. | Specimen Description | Location |
|---|---|---|
| 1 | Black coating | Outer bearing |
| 2 | Green plastic | Main shell/ core |
| 3 | Silvery metal | Outer ring of outer bearing |
| 4 | Dull silvery metal | Inner ring of outer bearing |
| 5 | Golden printed silvery metal | Outer ring of center bearing |
| 6 | Dull golden printed silvery metal | Inner ring of center bearing |
| 7 | Dull black coating | Tracking code |

**DATE CODE PHOTO:**

**SAMPLE PHOTO:**


-End Report-