

TEST REPORT

Company: Quality Certification Alliance
Recipient: D. Fenton
Recipient Email: dfenton@qcalliance.org
cc to Email: -

Test Report # 16H-00949
Date of Issue: March 18, 2016
Pages: Page 1 of 37
Date Received: March 07, 2016

SAMPLE INFORMATION:

Description:	UVGL Series Ink	Purchase Order Number:	-
Assortment/Colors:	See Table on pg.3	Country of Distribution:	United States, Canada
Style/Batch No.:	See Table on pg.3	Country of Origin:	United States
Supplier:	-	Labeled Age Grade:	-
Quantity Submitted:	2 fluid oz./sample	Recommended Age Grade:	-
Date Received:	03/07/2016	Tested Age Grade:	-
Testing Period:	03/07/2016 – 03/17/2016		

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

ANSECO GROUP (HK) LIMITED



Vincent Chow Wai Kit
Manager, Chemical Laboratory

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

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 106 & ASTM F963-11 Clause 4.3.5, Soluble Elements in Paints and Similar Surface Coatings
PASS	ASTM F2923-14 Clause 8, Soluble Elements in Paint and Surface Coatings
PASS	CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints & Surface Coatings
PASS	The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead in Surface Coatings of Children's Jewelry and Childcare Articles
PASS	Connecticut General Statutes Title 21a Chapter 416 Section 21a-12d, Total Cadmium in Children's Jewelry
PASS	Maryland Chapter 578 (House Bill 145), Total Cadmium in Children's Jewelry
PASS	Minnesota Chapter 347-S.F. No. 2510, Total Cadmium Screening in Children's Jewelry
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 Proposed Rules 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates [#]
Refer to Detailed Results*	Canadian Toys Regulations (SOR/2011-17) Item 23, Leachable Elements in Surface Coating Materials
PASS	Canadian Toys Regulations (SOR/2011-17) Item 23, Total Lead and Mercury in Surface Coating Materials
PASS	Canadian Surface Coating Materials Regulations (SOR/2005-109), Total Lead and Mercury in Surface Coating Materials

* Specimen (s) No. 27 Do Not Meet the requirements of Canadian Toys Regulations (SOR/2011-17) Item 23, Leachable Elements in Surface Coating Materials. Please see page 4 for detailed specimen description and page 33 for test results on individual specimens.

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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Light brown ink	Ultraglass UVGL PG
2	Light grey ink	Ultraglass UVGL PS
3	Translucent yellow ink	Ultraglass UVGL WV
4	Light yellow ink	Ultraglass UVGL 122
5	Yellow ink	Ultraglass UVGL 124
6	Orange ink	Ultraglass UVGL 130
7	Red ink	Ultraglass UVGL 132
8	Magenta ink	Ultraglass UVGL 136
9	Blue ink	Ultraglass UVGL 152
10	Light blue ink	Ultraglass UVGL 156
11	Green ink	Ultraglass UVGL 162
12	White ink	Ultraglass UVGL 170
13	Black ink	Ultraglass UVGL 180
14	Bright black ink	Ultraglass UVGL 188
15	Milky white ink	Ultraglass UVGL 904
16	Beige ink	Ultraglass UVGL 913
17	Bright beige ink	Ultraglass UVGL 914
18	Deep yellow ink	Ultraglass UVGL 924
19	Bright yellow ink	Ultraglass UVGL 922
20	Bright orange ink	Ultraglass UVGL 926
21	Bright red ink	Ultraglass UVGL 932
22	Deep red ink	Ultraglass UVGL 934
23	Dark red ink	Ultraglass UVGL 936
24	Dark purple ink	Ultraglass UVGL 950

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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
25	Deep purple ink	Ultraglass UVGL 952
26	Navy ink	Ultraglass UVGL 956
27	Dark green ink	Ultraglass UVGL 960
28	Deep green ink	Ultraglass UVGL 962
29	Bright white ink	Ultraglass UVGL 970
30	Bright black ink	Ultraglass UVGL 980

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DETAILED RESULTS:

CPSIA Section 106 & ASTM F963-11 Clause 4.3.5, Soluble Elements in Paints and Similar Surface Coatings

Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced regulation and standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.2]

Specimen No.	1	2	3	4	5	Limit Soluble (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Soluble Sb	ND	ND	ND	ND	ND	60
Soluble As	ND	ND	ND	ND	ND	25
Soluble Ba	160	87	ND	61	180	1000
Soluble Cd	ND	ND	ND	ND	ND	75
Soluble Cr	ND	ND	ND	ND	ND	60
Soluble Pb	ND	ND	ND	ND	ND	90
Soluble Hg	ND	ND	ND	ND	ND	60
Soluble Se	ND	ND	ND	ND	ND	500
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
 Cr = Chromium; Pb = Lead; Hg = Mercury; Se = Selenium
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 2 ppm)

Remark:

The total heavy metals screening results of Specimen No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 and 30 exceeded the soluble heavy metal limits, therefore a separate soluble analysis was conducted.

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DETAILED RESULTS:

CPSIA Section 106 & ASTM F963-11 Clause 4.3.5, Soluble Elements in Paints and Similar Surface Coatings

Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced regulation and standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.2]

Specimen No.	6	7	8	9	10	Limit Soluble (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Soluble Sb	ND	ND	ND	ND	ND	60
Soluble As	ND	ND	ND	ND	ND	25
Soluble Ba	120	180	95	51	140	1000
Soluble Cd	ND	ND	ND	ND	ND	75
Soluble Cr	ND	ND	ND	ND	ND	60
Soluble Pb	ND	ND	ND	ND	ND	90
Soluble Hg	ND	ND	ND	ND	ND	60
Soluble Se	ND	ND	ND	ND	ND	500
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
 Cr = Chromium; Pb = Lead; Hg = Mercury; Se = Selenium
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
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Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced regulation and standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.2]

Specimen No.	11	12	13	14	15	Limit Soluble (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Soluble Sb	ND	ND	ND	ND	ND	60
Soluble As	ND	ND	ND	ND	ND	25
Soluble Ba	49	3	120	290	100	1000
Soluble Cd	ND	ND	ND	ND	ND	75
Soluble Cr	ND	ND	ND	ND	ND	60
Soluble Pb	ND	ND	ND	ND	ND	90
Soluble Hg	ND	ND	ND	ND	ND	60
Soluble Se	ND	ND	ND	ND	ND	500
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
 Cr = Chromium; Pb = Lead; Hg = Mercury; Se = Selenium
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
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DETAILED RESULTS:

CPSIA Section 106 & ASTM F963-11 Clause 4.3.5, Soluble Elements in Paints and Similar Surface Coatings

Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced regulation and standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.2]

Specimen No.	16	17	18	19	20	Limit Soluble (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Soluble Sb	ND	ND	ND	ND	ND	60
Soluble As	ND	ND	ND	ND	ND	25
Soluble Ba	140	82	160	250	190	1000
Soluble Cd	ND	ND	ND	ND	ND	75
Soluble Cr	ND	ND	ND	ND	ND	60
Soluble Pb	ND	ND	ND	ND	ND	90
Soluble Hg	ND	ND	ND	ND	ND	60
Soluble Se	ND	ND	ND	ND	ND	500
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
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 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
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DETAILED RESULTS:

CPSIA Section 106 & ASTM F963-11 Clause 4.3.5, Soluble Elements in Paints and Similar Surface Coatings

Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced regulation and standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.2]

Specimen No.	21	22	23	24	25	Limit Soluble (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Soluble Sb	ND	ND	ND	ND	ND	60
Soluble As	ND	ND	ND	ND	ND	25
Soluble Ba	300	320	110	140	140	1000
Soluble Cd	ND	ND	ND	ND	ND	75
Soluble Cr	ND	ND	ND	ND	ND	60
Soluble Pb	ND	ND	ND	ND	ND	90
Soluble Hg	ND	ND	ND	ND	ND	60
Soluble Se	ND	ND	ND	ND	ND	500
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
 Cr = Chromium; Pb = Lead; Hg = Mercury; Se = Selenium
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 2 ppm)

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DETAILED RESULTS:

CPSIA Section 106 & ASTM F963-11 Clause 4.3.5, Soluble Elements in Paints and Similar Surface Coatings

Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced regulation and standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.2]

Specimen No.	26	27	28	29	30	Limit Soluble (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Soluble Sb	ND	ND	ND	ND	ND	60
Soluble As	ND	ND	ND	ND	ND	25
Soluble Ba	65	150	84	ND	140	1000
Soluble Cd	ND	ND	ND	ND	ND	75
Soluble Cr	ND	ND	ND	ND	ND	60
Soluble Pb	ND	ND	ND	ND	ND	90
Soluble Hg	ND	ND	ND	ND	ND	60
Soluble Se	ND	ND	ND	ND	ND	500
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
 Cr = Chromium; Pb = Lead; Hg = Mercury; Se = Selenium
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
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DETAILED RESULTS:

ASTM F2923-14 Clause 8, Soluble Elements in Paint and Surface Coatings

Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.2]

Specimen No.	1	2	3	4	5	Limit Soluble (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Soluble Sb	ND	ND	ND	ND	ND	60
Soluble As	ND	ND	ND	ND	ND	25
Soluble Ba	160	87	ND	61	180	1000
Soluble Cd	ND	ND	ND	ND	ND	75
Soluble Cr	ND	ND	ND	ND	ND	60
Soluble Hg	ND	ND	ND	ND	ND	60
Soluble Se	ND	ND	ND	ND	ND	500
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
 Cr = Chromium; Hg = Mercury; Se = Selenium
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 2 ppm)

Remark:

The total heavy metals screening results of Specimen No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 and 30 exceeded the soluble heavy metal limits, therefore a separate soluble analysis was conducted.

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DETAILED RESULTS:

ASTM F2923-14 Clause 8, Soluble Elements in Paint and Surface Coatings

Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.2]

Specimen No.	6	7	8	9	10	Limit Soluble (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Soluble Sb	ND	ND	ND	ND	ND	60
Soluble As	ND	ND	ND	ND	ND	25
Soluble Ba	120	180	95	51	140	1000
Soluble Cd	ND	ND	ND	ND	ND	75
Soluble Cr	ND	ND	ND	ND	ND	60
Soluble Hg	ND	ND	ND	ND	ND	60
Soluble Se	ND	ND	ND	ND	ND	500
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

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ASTM F2923-14 Clause 8, Soluble Elements in Paint and Surface Coatings

Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.2]

Specimen No.	11	12	13	14	15	Limit Soluble (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Soluble Sb	ND	ND	ND	ND	ND	60
Soluble As	ND	ND	ND	ND	ND	25
Soluble Ba	49	3	120	290	100	1000
Soluble Cd	ND	ND	ND	ND	ND	75
Soluble Cr	ND	ND	ND	ND	ND	60
Soluble Hg	ND	ND	ND	ND	ND	60
Soluble Se	ND	ND	ND	ND	ND	500
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
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Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.2]

Specimen No.	16	17	18	19	20	Limit Soluble (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Soluble Sb	ND	ND	ND	ND	ND	60
Soluble As	ND	ND	ND	ND	ND	25
Soluble Ba	140	82	160	250	190	1000
Soluble Cd	ND	ND	ND	ND	ND	75
Soluble Cr	ND	ND	ND	ND	ND	60
Soluble Hg	ND	ND	ND	ND	ND	60
Soluble Se	ND	ND	ND	ND	ND	500
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
 Cr = Chromium; Hg = Mercury; Se = Selenium
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 2 ppm)

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TEST REPORT

Company: Quality Certification Alliance
 Recipient: D. Fenton
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 cc to Email: -

Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 15 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

ASTM F2923-14 Clause 8, Soluble Elements in Paint and Surface Coatings

Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.2]

Specimen No.	21	22	23	24	25	Limit Soluble (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Soluble Sb	ND	ND	ND	ND	ND	60
Soluble As	ND	ND	ND	ND	ND	25
Soluble Ba	300	320	110	140	140	1000
Soluble Cd	ND	ND	ND	ND	ND	75
Soluble Cr	ND	ND	ND	ND	ND	60
Soluble Hg	ND	ND	ND	ND	ND	60
Soluble Se	ND	ND	ND	ND	ND	500
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
 Cr = Chromium; Hg = Mercury; Se = Selenium
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 2 ppm)

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Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 16 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

ASTM F2923-14 Clause 8, Soluble Elements in Paint and Surface Coatings

Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.2]

Specimen No.	26	27	28	29	30	Limit Soluble (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Soluble Sb	ND	ND	ND	ND	ND	60
Soluble As	ND	ND	ND	ND	ND	25
Soluble Ba	65	150	84	ND	140	1000
Soluble Cd	ND	ND	ND	ND	ND	75
Soluble Cr	ND	ND	ND	ND	ND	60
Soluble Hg	ND	ND	ND	ND	ND	60
Soluble Se	ND	ND	ND	ND	ND	500
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
 Cr = Chromium; Hg = Mercury; Se = Selenium
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 2 ppm)

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Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 17 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints & Surface Coatings

Analysis performed by Inductively Coupled Plasma-Optical Emission Spectrometry to determine compliance with the above referenced regulations. [Referenced Test Method: CPSC-CH-E-1003-09.1]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	Limit
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Total (ppm)
Total Pb	ND	ND	ND	ND	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17+18	19+20+21	22+23+24	25+26+27	28+29+30	Limit
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Total (ppm)
Total Pb	ND	ND	ND	ND	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Pb = Lead

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.

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Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 18 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead in Surface Coatings of Children's Jewelry and Childcare Articles

Analysis performed by Inductively Coupled Plasma-Optical Emission Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: CPSC-CH-E1003-09.1]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	Limit Total (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Pb	ND	ND	ND	ND	ND	40
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17+18	19+20+21	22+23+24	25+26+27	28+29+30	Limit Total (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Pb	ND	ND	ND	ND	ND	40
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Pb = Lead

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.

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Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 19 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

Connecticut General Statutes Title 21a Chapter 416 Section 21a-12d, Total Cadmium in Children's Jewelry

Analysis performed by Inductively Coupled Plasma-Optical Emission Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: ASTM F963-11 Clause 8.3.1]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	Limit Total (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Cd	ND	ND	ND	ND	ND	75
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17+18	19+20+21	22+23+24	25+26+27	28+29+30	Limit Total (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Cd	ND	ND	ND	ND	ND	75
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Cd = Cadmium

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.

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Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 20 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

Maryland Chapter 578 (House Bill 145), Total Cadmium in Children's Jewelry

Analysis performed by Inductively Coupled Plasma-Optical Emission Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: ASTM F963-11 Clause 8.3.1]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	Limit Total (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Cd	ND	ND	ND	ND	ND	75
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17+18	19+20+21	22+23+24	25+26+27	28+29+30	Limit Total (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Cd	ND	ND	ND	ND	ND	75
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Cd = Cadmium

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.

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Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 21 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

Minnesota Chapter 347-S.F. No. 2510, Total Cadmium Screening in Children's Jewelry

Analysis performed by Inductively Coupled Plasma-Optical Emission Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: ASTM F963-11 8.3.1]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	Limit Soluble (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Cd	ND	ND	ND	ND	ND	75
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17+18	19+20+21	22+23+24	25+26+27	28+29+30	Limit Soluble (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Cd	ND	ND	ND	ND	ND	75
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Cd = Cadmium

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.

Remark:

The total cadmium screening results do not exceed the soluble cadmium limit, therefore, further soluble analyses were not conducted.

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Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 22 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

CPSIA Section 108, Phthalates – Mouthable (DBP, BBP, DEHP, DnOP, DINP, DIDP)

Analysis performed by Gas Chromatography/Mass Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: CPSC-CH-C1001-09.3]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
DBP	ND	ND	ND	ND	ND	1000
BBP	ND	ND	ND	ND	ND	1000
DEHP	ND	ND	ND	ND	ND	1000
DnOP	ND	ND	ND	ND	ND	1000
DINP	ND	ND	ND	ND	ND	1000
DIDP	ND	ND	ND	ND	ND	1000
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate;
 DnOP = Di-n-octyl phthalate; DINP = Diisononyl phthalate; DIDP = Diisodecyl phthalate
 ppm (Parts per million) = mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)
 LT = Less than
 ND = Not detected (Reporting Limit = 120 ppm)
 Composite results are based on specimen of least mass resulting in highest potential concentration.

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Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 23 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

CPSIA Section 108, Phthalates – Mouthable (DBP, BBP, DEHP, DnOP, DINP, DIDP)

Analysis performed by Gas Chromatography/Mass Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: CPSC-CH-C1001-09.3]

Specimen No.	16+17+18	19+20+21	22+23+24	25+26+27	28+29+30	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
DBP	ND	ND	ND	ND	ND	1000
BBP	ND	ND	ND	ND	ND	1000
DEHP	ND	ND	ND	ND	ND	1000
DnOP	ND	ND	ND	ND	ND	1000
DINP	ND	ND	ND	ND	ND	1000
DIDP	ND	ND	ND	ND	ND	1000
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate;
 DnOP = Di-n-octyl phthalate; DINP = Diisononyl phthalate; DIDP = Diisodecyl phthalate
 ppm (Parts per million) = mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)
 LT = Less than
 ND = Not detected (Reporting Limit = 120 ppm)
 Composite results are based on specimen of least mass resulting in highest potential concentration.

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Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 24 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Analysis performed by Gas Chromatography/Mass Spectrometry to determine compliance with the above referenced specification. [Referenced Test Method: CPSC-CH-C1001-09.3]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
DBP	ND	ND	ND	ND	ND	1000
BBP	ND	ND	ND	ND	ND	1000
DEHP	ND	ND	ND	ND	ND	1000
DINP	ND	ND	ND	ND	ND	1000
DIDP	ND	ND	ND	ND	ND	1000
DnHP	ND	ND	ND	ND	ND	1000
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate;
 DINP = Diisononyl phthalate; DIDP = Diisodecyl phthalate; DnHP = Di-n-hexyl phthalate
 ppm (Parts per million) = mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)
 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.

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Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 25 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Analysis performed by Gas Chromatography/Mass Spectrometry to determine compliance with the above referenced specification. [Referenced Test Method: CPSC-CH-C1001-09.3]

Specimen No.	16+17+18	19+20+21	22+23+24	25+26+27	28+29+30	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
DBP	ND	ND	ND	ND	ND	1000
BBP	ND	ND	ND	ND	ND	1000
DEHP	ND	ND	ND	ND	ND	1000
DINP	ND	ND	ND	ND	ND	1000
DIDP	ND	ND	ND	ND	ND	1000
DnHP	ND	ND	ND	ND	ND	1000
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate;
 DINP = Diisononyl phthalate; DIDP = Diisodecyl phthalate; DnHP = Di-n-hexyl phthalate
 ppm (Parts per million) = mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)
 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.

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Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 26 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

CPSC Proposed Rules 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Analysis performed by Gas Chromatography/Mass Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: AI|ANSECO Method#]

Specimen No.		1+2+3	4+5+6	7+8+9	10+11+12	Limit (ppm)
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
DBP	84-74-2	ND	ND	ND	ND	1000
BBP	85-68-7	ND	ND	ND	ND	1000
DEHP	117-81-7	ND	ND	ND	ND	1000
DINP	28553-12-0 68515-48-0	ND	ND	ND	ND	1000
DHEXP / DnHP	84-75-3	ND	ND	ND	ND	1000
DCHP	84-61-7	ND	ND	ND	ND	1000
DIBP	84-69-5	ND	ND	ND	ND	1000
DPENP	131-18-0	ND	ND	ND	ND	1000
Conclusion		PASS	PASS	PASS	PASS	

Note:

DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate;

DINP = Diisononyl phthalate; DIBP = Diisobutyl phthalate; DPENP = Di-n-pentyl phthalate;

DHEXP / DnHP = Di-n-hexyl phthalate; DCHP = Dicyclohexyl phthalate

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

LT = Less than

ND = Not detected (Reporting Limit = 120 ppm)

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

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 Pages: Page 27 of 37
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DETAILED RESULTS:

CPSC Proposed Rules 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Analysis performed by Gas Chromatography/Mass Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: AI|ANSECO Method#]

Specimen No.		13+14+15	16+17+18	19+20+21	22+23+24	Limit (ppm)
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
DBP	84-74-2	ND	ND	ND	ND	1000
BBP	85-68-7	ND	ND	ND	ND	1000
DEHP	117-81-7	ND	ND	ND	ND	1000
DINP	28553-12-0 68515-48-0	ND	ND	ND	ND	1000
DHEXP / DnHP	84-75-3	ND	ND	ND	ND	1000
DCHP	84-61-7	ND	ND	ND	ND	1000
DIBP	84-69-5	ND	ND	ND	ND	1000
DPENP	131-18-0	ND	ND	ND	ND	1000
Conclusion		PASS	PASS	PASS	PASS	

Note:

DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate;

DINP = Diisononyl phthalate; DIBP = Diisobutyl phthalate; DPENP = Di-n-pentyl phthalate;

DHEXP / DnHP = Di-n-hexyl phthalate; DCHP = Dicyclohexyl phthalate

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

LT = Less than

ND = Not detected (Reporting Limit = 120 ppm)

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

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TEST REPORT

Company: Quality Certification Alliance
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Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 28 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

CPSC Proposed Rules 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Analysis performed by Gas Chromatography/Mass Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: AI|ANSECO Method#]

Specimen No.		25+26+27	28+29+30	---	---	Limit (ppm)
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
DBP	84-74-2	ND	ND	---	---	1000
BBP	85-68-7	ND	ND	---	---	1000
DEHP	117-81-7	ND	ND	---	---	1000
DINP	28553-12-0 68515-48-0	ND	ND	---	---	1000
DHEXP / DnHP	84-75-3	ND	ND	---	---	1000
DCHP	84-61-7	ND	ND	---	---	1000
DIBP	84-69-5	ND	ND	---	---	1000
DPENP	131-18-0	ND	ND	---	---	1000
Conclusion		PASS	PASS	---	---	

Note:

DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate;

DINP = Diisononyl phthalate; DIBP = Diisobutyl phthalate; DPENP = Di-n-pentyl phthalate;

DHEXP / DnHP = Di-n-hexyl phthalate; DCHP = Dicyclohexyl phthalate

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

LT = Less than

ND = Not detected (Reporting Limit = 120 ppm)

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

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Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 29 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

Canadian Toys Regulations (SOR/2011-17) Item 23, Leachable Elements in Surface Coating Materials

Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: Health Canada Method C-03 (Effective 2011-08-18)]

Specimen No.	1	2	3	4	5	Limit
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Leachable (ppm)
Leachable Sb	ND	ND	ND	ND	ND	1000
Leachable As	ND	ND	ND	ND	ND	1000
Leachable Ba	100	ND	ND	ND	85	1000
Leachable Cd	ND	ND	ND	ND	ND	1000
Leachable Se	ND	ND	ND	ND	ND	1000
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium; Se = Selenium
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 50 ppm)

Remark:

The total heavy metals screening results of Specimen No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 and 30 exceeded the leachable heavy metal limits, therefore a separate leachable analysis was conducted.

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 Pages: Page 30 of 37
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DETAILED RESULTS:

Canadian Toys Regulations (SOR/2011-17) Item 23, Leachable Elements in Surface Coating Materials

Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: Health Canada Method C-03 (Effective 2011-08-18)]

Specimen No.	6	7	8	9	10	Limit
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Leachable (ppm)
Leachable Sb	ND	ND	ND	ND	ND	1000
Leachable As	ND	ND	ND	ND	ND	1000
Leachable Ba	63	120	ND	ND	ND	1000
Leachable Cd	ND	ND	ND	ND	ND	1000
Leachable Se	ND	ND	ND	ND	ND	1000
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	11	12	13	14	15	Limit
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Leachable (ppm)
Leachable Sb	ND	ND	ND	ND	ND	1000
Leachable As	ND	ND	ND	ND	ND	1000
Leachable Ba	ND	ND	63	380	79	1000
Leachable Cd	ND	ND	ND	ND	ND	1000
Leachable Se	ND	ND	ND	ND	ND	1000
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium; Se = Selenium
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 50 ppm)

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Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 31 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

Canadian Toys Regulations (SOR/2011-17) Item 23, Leachable Elements in Surface Coating Materials

Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: Health Canada Method C-03 (Effective 2011-08-18)]

Specimen No.	16	17	18	19	20	Limit
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Leachable (ppm)
Leachable Sb	ND	ND	ND	ND	ND	1000
Leachable As	ND	ND	ND	ND	ND	1000
Leachable Ba	110	330	210	180	ND	1000
Leachable Cd	ND	ND	ND	ND	ND	1000
Leachable Se	ND	ND	ND	ND	ND	1000
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	21	22	23	24	25	Limit
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Leachable (ppm)
Leachable Sb	ND	ND	ND	ND	ND	1000
Leachable As	ND	ND	ND	ND	ND	1000
Leachable Ba	63	210	69	170	98	1000
Leachable Cd	ND	ND	ND	ND	ND	1000
Leachable Se	ND	ND	ND	ND	ND	1000
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium; Se = Selenium
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 50 ppm)

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 Pages: Page 32 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

Canadian Toys Regulations (SOR/2011-17) Item 23, Leachable Elements in Surface Coating Materials

Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: Health Canada Method C-03 (Effective 2011-08-18)]

Specimen No.	26	28	29	30	---	Limit
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Leachable (ppm)
Leachable Sb	ND	ND	ND	ND	---	1000
Leachable As	ND	ND	ND	ND	---	1000
Leachable Ba	87	100	ND	180	---	1000
Leachable Cd	ND	ND	ND	ND	---	1000
Leachable Se	ND	ND	ND	ND	---	1000
Conclusion	PASS	PASS	PASS	PASS	---	

Note:

Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium; Se = Selenium
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 50 ppm)

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 Pages: Page 33 of 37
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DETAILED RESULTS:

Canadian Toys Regulations (SOR/2011-17) Item 23, Leachable Elements in Surface Coating Materials

Analysis performed by Inductively Coupled Plasma-Mass Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: Health Canada Method C-03 (Effective 2011-08-18)]

Specimen No.	27	---	---	---	---	Limit
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Leachable (ppm)
Leachable Sb	ND	---	---	---	---	1000
Leachable As	ND	---	---	---	---	1000
Leachable Ba	3000	---	---	---	---	1000
Leachable Cd	ND	---	---	---	---	1000
Leachable Se	ND	---	---	---	---	1000
Conclusion	FAIL	---	---	---	---	

Note:

Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium; Se = Selenium
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 50 ppm)

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Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 34 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

Canadian Toys Regulations (SOR/2011-17) Item 23, Total Lead and Mercury in Surface Coating Materials

Analysis performed by Inductively Coupled Plasma-Optical Emission Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: ASTM F963-11 Clause 8.3.1]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	Limit Total (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Pb	ND	ND	ND	ND	ND	90
Total Hg	ND	ND	ND	ND	ND	10
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17+18	19+20+21	22+23+24	25+26+27	28+29+30	Limit Total (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Pb	ND	ND	ND	ND	ND	90
Total Hg	ND	ND	ND	ND	ND	10
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Pb = Lead; Hg = Mercury

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.

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Test Report # 16H-00949
 Date of Issue: March 18, 2016
 Pages: Page 35 of 37
 Date Received: March 07, 2016

DETAILED RESULTS:

Canadian Surface Coating Materials Regulations (SOR/2005-109), Total Lead and Mercury in Surface Coating Materials

Analysis performed by Inductively Coupled Plasma Optical Emission Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: ASTM F963-11 Clause 8.3.1]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	Limit Total (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Pb	ND	ND	ND	ND	ND	90
Total Hg	ND	ND	ND	ND	ND	10
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17+18	19+20+21	22+23+24	25+26+27	28+29+30	Limit Total (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Pb	ND	ND	ND	ND	ND	90
Total Hg	ND	ND	ND	ND	ND	10
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

Pb = Lead; Hg = Mercury

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.

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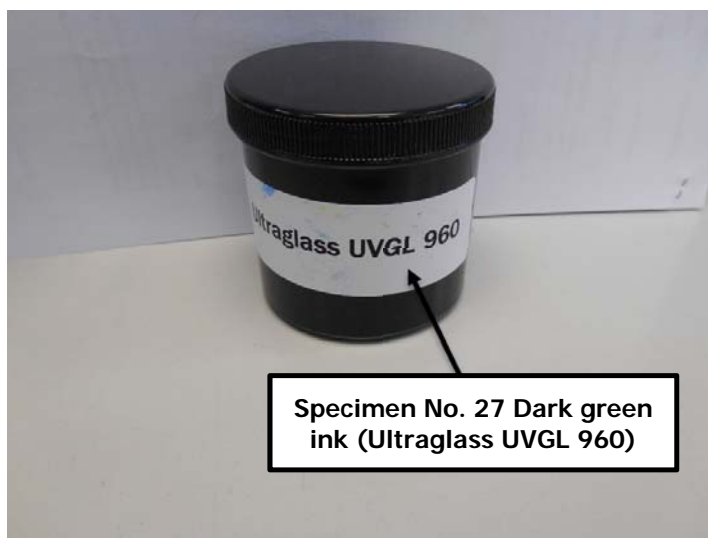
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PHOTO OF FAIL INDIVIDUAL INK(S):



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SAMPLE PHOTO:



-End Report-

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