



Cambridge

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Laboratory #: 776684-18
Report Date: April 6, 2018
Received Date: March 23, 2018

Attention: Alexander Appia
Specimen: #1. Inkcraft - Metallic Gold / Metallic Silver / GL plastisol Inks

TEST REPORT

One specimen was submitted to be analyzed for total heavy metals and phthalate content in order to determine compliance with the U.S. Consumer Product Safety Improvement Act.

STANDARDS

U.S. Consumer Products Safety Improvement Act of 2008: Section 101 Products containing Lead
Section 108 Products containing Phthalates

TEST METHODS

- CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Total Lead (Pb) in Paint and Surface Coatings
- CPSC-CH-C1001-09.3 Standard Operating Procedure for Determination of Phthalates

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Test Report Template Revision January 2013

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Per *Stephen Brown*
Stephen Brown, Quality Assurance
Per *Anamaria Rojas Pineda*
Anamaria Rojas-Pineda, Technician



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-E1003-09.1

RESULTS

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)
1	<1	<1	<1	<1	<1	<10	<1	<1	Pass
ASTM F963-17 Requirement Maximum-Soluble	60	25	1000	75	60	90	60	500	
ASTM F963-17 Requirement Maximum-Total Substrate	N/A					100	N/A		

Note: Due to the total element content being lower than the soluble limits (as specified in Table 1 and section 8.3.1.3 of ASTM F963-17), the listed materials Pass the requirements of section 4.3.5 of ASTM F963-17.

PHTHALATE CONTENT

The submitted specimen was extracted in Tetrahydrofuran (THF) solvent, followed by cyclohexane, and then analyzed using a Gas Chromatograph equipped with a Mass Detector as per CPSC-CH-C1001-09.3.

Specimen #	Phthalate Content										Result
	DIBP	DBP	DPENP	DHEXP	BBP	DEHP	DCHP	DINP	DIDP	DnOP	
1	N.D. (<0.010%)	N.D. (<0.010%)	N.D. (<0.010%)	N.D. (<0.010%)	N.D. (<0.010%)	N.D. (<0.010%)	N.D. (<0.010%)	N.D. (<0.040%)	N.D. (<0.040%)	N.D. (<0.010%)	¹ Pass
Limit as per Phthalates Section 108 of the Consumer Product Safety Improvement Act of 2008 (CPSIA) 0.1 (% w/w), max.											

N.D. = Not Detected

¹Note: Although a compound was found exhibiting the same retention time comparable to DnOP, the Mass spectra showed consistency with Di-(2-ethylhexyl)-Terephthalate or (Terephthalic Acid, Di-(2-ethylhexyl) ester) which is not a regulated phthalate.

***Note:** DIBP, DPENP, DHEXP and DCHP will only become regulated phthalates after April 25, 2018.

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