Cambridge
materials testing limited

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Report For: Inkcraft Corporation
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Laboratory #: 768192-18

Report Date: December 21, 2018
Received Date: November 15, 2017

Attention: Alexander Appia
Specimen: #1. Inkcraft - Plastisol Inks (rec'd Nov.15 under lab #766610-17)

TEST REPORT

One specimen was submitted to be analyzed for heavy metals and phthalate content in accordance with the Canadian Consumer Products Safety Act (S.C.2010,C.21) and the U.S. Consumer Product Safety Improvement Act of 2008 (CPSIA).

TOTAL LEAD AND MERCURY CONTENT

Health Canada Method C-02.2

RESULTS (Obtained from Laboratory Report 766610-17)

SPECIMEN	Total Lead (ppm)	Total Mercury (ppm)	Requirements (Pass / Fail)
1	N.D. (<10)	N.D. (<1)	**Pass**
Surface Coating Material Regulation (SOR/2016-193) Maximum - Total Elements in Surface Coatings	**90**	**10**	
Toy Regulation (SOR/2011-17) Maximum - Total Elements in Surface Coatings	**90**	**None**	

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Per _____
STEPHEN BROWN, QUALITY ASSURANCE

Per _____
DIANA KALINOWSKI, TECHNICIAN

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SOLUBLE HEAVY METALS CONTENT

Health Canada Methods C-03

RESULTS (Obtained from Laboratory Report 766610-17)

SPECIMEN	Soluble Antimony (ppm)	Soluble Arsenic (ppm)	Soluble Barium (ppm)	Soluble Cadmium (ppm)	Soluble Selenium (ppm)	Requirements (Pass / Fail)
1	N.D. (<1)	N.D. (<1)	5	N.D. (<1)	N.D. (<1)	Pass
Toy Regulation (SOR/2011-17) Maximum-Soluble Elements in Surface Coatings	1000	1000	1000	1000	1000	

TOTAL HEAVY ELEMENT CONTENT SCREENING

ASTM F963-17 Section 8.3.1, 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)	Requirements (Pass / Fail)
1	N.D. (<1)	N.D. (<1)	107	N.D. (<1)	4	N.D. (<10)	N.D. (<1)	N.D. (<1)	Pass
ASTM F963-17 Maximum-Soluble Elements in Surface Coatings	60	25	1000	75	60	90	60	500	
ASTM F963-17 Maximum-Total Lead in Surface Coatings	N/A					90	N/A		

*Note 1: As a result of the screening test, the above sample contains lower Total levels than the Soluble limits as specified in Table 1 and section 8.3.1.3 of ASTM F963-17, therefore no further testing is required.

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PHTHALATE CONTENT

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

RESULTS (Obtained from Laboratory Report 766610-17)

SPECIMEN	Phthalate Content							Pass / Fail
	di-iso-butyl phthalate	di-(2-ethylhexyl) phthalate	dibutyl phthalate	benzyl butyl phthalate	diisononyl phthalate	diisodecyl phthalate	di-n-octyl phthalate	
	(DIBP)	(DEHP)	(DBP)	(BBP)	(DINP)	(DIDP)	(DnOP)	
1	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%)	Pass See Note 2
Limit as per Phthalate Regulation SOR/2010-298 of the Canadian Consumer Product Safety Act (CCPSA), 0.1 (% w/w), max.. (DIBP is not regulated, only for informative purpose)								

N.D. = Not Detected

Note 2: 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 3: Base on the results of this test report the submitted specimen will also comply with the Phthalate requirement section 108 of the Consumer Products Safety Improvement Act CPSA of 2008.