

846428-20

Tel: (905) 812-3856 Fax: (905) 812-3866

Laboratory #:

Report Date:

Received Date:

www.cambridgematerials.com

October 23, 2020

October 14, 2020

Report For: Inkcraft Corporation

110 Cidermill Ave. Bldg. B-1

Concord, Ontario

L4K 4L9

Phone: 905-738-3963 Fax: 905-738-5862 Email: inkcraft@bellnet.ca

Attention: Alexander Appia

Specimen: #1. INKCRAFT (P-65) NW, PI, EX-LO, SPI-White/Black/Yellow/Red/Green/Blue

TEST REPORT

One specimen was submitted to be analyzed for total heavy metals and phthalate content in order to determine compliance with various regulations as requested by Inkcraft Corporation.

TEST RESULTS SUMARY:

CONCLUCION	
CONCLUSION	REGULATIONS
PASS	CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5. Total Element Screening in Paint and
FAGG	Similar Surface Coatings.
PASS	ASTM F2923 -14 Consumer Product Safety for Children's Jewelry, Clause 8 Total Elements Screening
FAGG	in Paint and Surface Coatings.
PASS	ASTM F2999-14 Adult Jewelry, Clause 5 & 7 Total Elements Screening in Paint and Surface Coatings.
PASS	CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings.
DACC	The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead in Paints and Surface
PASS	Coatings on Children's Jewelry and Childcare Articles.
PASS	Washington Revised Code Section 70.240.020, Cadmium in Paints and Surface Coatings of Children's
PASS	Product.
PASS	Connecticut Public Act10-133 (Substituted House Bill 5314), Total Cadmium Content in Children's
PASS	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	California Proposition 65, Phthalates (DBP-BBP-DEHP-DINP-DIDP-DnHP)
16 CFR 1307 Prohibition of Children's Toys and Child Articles Containing Specified Ph	
PASS	BBP, DEHP, DINP, DHEXP/DnHP, DCHP, DIBP, DPENP)
PASS	Washington Revised Code Section 70.240.020, Phthalates in Children's Products.
PASS	Canadian Toys Regulations SOR/2011-17 as Amended, Item 23-Total Elements Screening in Paints
PASS	and Surface Coatings.
PASS	Canadian Surface Coating Material Regulations SOR/2016-193, Total Lead and Mercury in Paints and
FASS	Surface Coatings.
PASS	Mexican Environmental Health NOM-252-SSA1-2011, Total Elements Screening from Toys and
PASS	School Supplies.

This report is subject to the following terms and conditions: 1. This report relates only to the specimen provided and there is no representation or warranty that it applies to similar substances or materials or the bulk of which the specimen is a part. 2. The content of this report is for the information of the customer identified above only and it shall not be reprinted, published or disclosed to any other party except in full. Prior written consent from Cambridge Materials Testing Limited is required. 3. The name Cambridge Materials testing Limited shall not be used in connection with the specimen reported on or any substance or materials similar to that specimen without the prior written consent of Cambridge Materials Testing Limited. 4. Neither Cambridge Materials Testing Limited nor any of its employees shall be responsible or held liable for any claims, loss or damages arising in consequence of reliance on this report or any default, error or omission in its preparation or the tests conducted. 5. Specimens are retained 6 months, test reports and test data are retained 7 years from date of final test report and then disposed of, unless instructed otherwise in writing. 6. When making a statement of conformity to a specification or standard the report will make the statement of conformity based on the absolute value of the test result. Test Report Template Revision August 20, 2019

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Cambridge Materials Testing Limited

Authorized By Stephen Brown

Technician, Diana Kalinowski

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DETAILED RESULTS:

CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5. Total Element Screening in Paint and Similar Surface Coatings

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	#1	Soluble
Test Item	Result	Limit
	(ppm)	(ppm)
Total Antimony (Sb)	ND	60
Total Arsenic (As)	ND	25
Total Barium (Ba)	437	1000
Total Cadmium (Cd)	ND	75
Total Chromium (Cr)	2	60
Total Lead (Pb)	ND	90
Total Mercury (Hg)	ND	60
Total Selenium (Se)	ND	500
Conclusion	PASS	-

Note:

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

LT=Less Than

ND= Not detected (Reporting Limit: Sb, As, Ba, Cd, Cr, Hg, Se =1 ppm; Pb=10 ppm)

Remark:

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DETAILED RESULTS:

ASTM F2923 -14 Consumer Product Safety for Children's Jewelry, Clause 8 Total Elements Screening in Paint and Surface Coatings

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	#1	Soluble
Test Item	Result	Limit
	(ppm)	(ppm)
Total Antimony (Sb)	ND	60
Total Arsenic (As)	ND	25
Total Barium (Ba)	437	1000
Total Cadmium (Cd)	ND	75
Total Chromium (Cr)	2	60
Total Mercury (Hg)	ND	60
Total Selenium (Se)	ND	500
Conclusion	PASS	-

Note:

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

LT=Less Than

ND= Not detected (Reporting Limit: Sb, As, Ba, Cd, Cr, Hg, Se =1 ppm)

Remark:

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DETAILED RESULTS:

ASTM F2999-14 Adult Jewelry, Clause 5 & 7 Total Elements Screening in Paint and Surface Coatings

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	#1	Soluble
Test Item	Result (ppm)	Limit (ppm)
Total Antimony (Sb)	ND	60
Total Arsenic (As)	ND	25
Total Barium (Ba)	437	1000
Total Cadmium (Cd)	ND	75
Total Chromium (Cr)	2	60
Total Lead (Pb)	ND	600*
Total Mercury (Hg)	ND	60
Total Selenium (Se)	ND	500
Conclusion	PASS	-

Note

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

LT=Less Than

ND= Not detected (Reporting Limit: Sb, As, Ba, Cd, Cr, Hg, Se =1 ppm; Pb=10 ppm)

Remark:

*Total limit



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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	Soluble
Toot Itom	Result	Limit
Test Item	(ppm)	(ppm)
Total Lead (Pb)	ND	90
Conclusion	PASS	-

Note:

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

LT=Less Than

ND= Not detected (Reporting Limit: 10 ppm)



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Laboratory # 846428-20 Inkcraft Corporation

DETAILED RESULTS:

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

Test Method: CPSC-CH-E1003-09-1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	#1	Soluble
Test Item	Result	Limit
rest item	(ppm)	(ppm)
Total Lead (Pb)	ND	40
Conclusion	PASS	-

Note:

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

LT=Less Than

ND= Not detected (Reporting Limit: Pb=10 ppm)

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DETAILED RESULTS:

Washington Revised Code Section 70.240.020, Cadmium in Paints and Surface Coatings of Children's Product

Test Method: CPSC-CH-E-1003-09.1 (Modified)#

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	#1	Soluble
Test Item	Result	Limit
rest item	(ppm)	(ppm)
Total Cadmium (Cd)	ND	40
Conclusion	PASS	-

Note:

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

LT=Less Than

ND= Not detected (Reporting Limit: 1 ppm)



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DETAILED RESULTS:

Connecticut Public Act10-133 (Substituted House Bill 5314) Total Cadmium Content in Children's **Jewelry**

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	#1	Soluble
Test Item	Result	Limit
rest item	(ppm)	(ppm)
Total Cadmium (Cd)	ND	75
Conclusion	PASS	-

Note:

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

LT=Less Than

ND= Not detected (Reporting Limit: 1 ppm)



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DETAILED RESULTS:

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

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	#1	Soluble
Test Item	Result	Limit
rest item	(ppm)	(ppm)
Total Cadmium (Cd)	ND	75
Conclusion	PASS	-

Note:

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

LT=Less Than

ND= Not detected (Reporting Limit: 1 ppm)



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DETAILED RESULTS:

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

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	#1	Soluble
Test Item	Result	Limit
restitem	(ppm)	(ppm)
Total Cadmium (Cd)	ND	75
Conclusion	PASS	-

Note:

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

LT=Less Than

ND= Not detected (Reporting Limit: 1 ppm)

Remark:

The total cadmium screening results did no exceed the soluble cadmium limit, therefore, soluble analyses were no conducted.

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DETAILED RESULTS:

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

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		#1	Limit
Test Item	CAS No.	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	1000
Diisononyl phthalate (DINP)	28553-12-0	ND	1000
Diisodecyl phthalate (DIDP)	26761-40-0	ND	1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	1000
Conclusion		PASS	-

Note:

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

ND= Not detected (Reporting Limit: DBP, BBP, DEHP, DnHP =150 mg/kg; DINP, DIDP= 600 mg/kg)

Remark:

The specification is quoted from client's requirement.

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DETAILED RESULTS:

16 CFR 1307 Prohibition of Children's Toys and Child Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP/DnHP, DCHP, DIBP, DPENP)

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		#1	Limit
Test Item	CAS No.	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	1000
Diisononyl phthalate (DINP)	28553-12-0	ND	1000
Di-n-hexyl phthalate (DHEX/DnHP)	84-75-3	ND	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	1000
Di-iso-butyl phthalate (DIBP)	84-69-5	ND	1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	1000
Conclusion		PASS	-

Note:

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

ND= Not detected (Reporting Limit: DBP, BBP, DEHP, DHEX/DnHP, DCHP, DIBP, DPENP =150 mg/kg; DINP = 600 mg/kg)

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DETAILED RESULTS:

Washington Revised Code Section 70.240.020, Phthalates in Children's Products

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		#1	Limit
Test Item	CAS No.	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND	1000
Diisononyl phthalate (DINP)	28553-12-0	ND	1000
Diisodecyl phthalate (DIDP)	26761-40-0	ND	1000
Conclusion		PASS	-

Note:

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

ND= Not detected (Reporting Limit: DBP, BBP, DEHP, DnOP =150 mg/kg; DINP, DIDP= 600 mg/kg)

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DETAILED RESULTS:

Canadian Toys Regulations SOR/2011-17 as Amended, Item 23-Total Elements Screening 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	Soluble
Test Item	Result	Limit
	(ppm)	(ppm)
Total Antimony (Sb)	ND	1000
Total Arsenic (As)	ND	1000
Total Barium (Ba)	437	1000
Total Cadmium (Cd)	ND	1000
Total Lead (Pb)	ND	90*
Total Mercury (Hg)	ND	10*
Total Selenium (Se)	ND	1000
Conclusion	PASS	-

Note:

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

LT=Less Than

ND= Not detected (Reporting Limit: Sb, As, Ba, Cd, Hg, Se =1 ppm; Pb=10 ppm)

Remark:

*Total limit

The results of total elements screening did not exceed the limits of leachable elements, therefore, further analysis of leachable elements was not conducted.

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DETAILED RESULTS:

Canadian Surface Coating Material Regulations SOR/2016-193, 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	Soluble
Test Item	Result	Limit
	(ppm)	(ppm)
Total Lead (Pb)	ND	90
Total Mercury (Hg)	ND	10
Conclusion	PASS	-

Note:

ppm (Parts per million)=mg/kg (Milligrams per kilogram) LT=Less Than ND= Not detected (Reporting Limit: Hg =1 ppm; Pb=10 ppm)

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Laboratory # 846428-20 Inkcraft Corporation

DETAILED RESULTS:

Mexican Environmental Health NOM-252-SSA1-2011, Total Elements Screening from Toys and School Supplies

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	#1	Soluble
Test Item	Result (ppm)	Limit (ppm)
Total Antimony (Sb)	ND	60
Total Arsenic (As)	ND	25
Total Barium (Ba)	437	1000
Total Cadmium (Cd)	ND	75
Total Chromium (Cr)	2	60
Total Lead (Pb)	ND	90
Total Mercury (Hg)	ND	60
Total Selenium (Se)	ND	500
Conclusion	Pass	-

Note:

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

LT=Less Than

ND= Not detected (Reporting Limit: Sb, As, Ba, Cd, Cr, Hg, Se =1 ppm; Pb=10 ppm)

Remark: