QIMA
YOUR EYES IN THE SUPPLY CHAIN

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1407

TEST REPORT

Test Report #	21B-000311	Date of Report Issue:	March 24, 2021
Date of Sample Received:	March 10, 2021	Pages:	Page 1 of 13

CLIENT INFORMATION:

Company:	Koozie Group
Recipient:	Anita S. Campbell
Recipient Email:	anita.campbell@kooziegroup.com

SAMPLE INFORMATION:

Description:	TW Ink Series		
Assortment:	-	Purchase Order Number:	-
SKU/style No.:	-	Toy Co./Agency:	-
Factory/Supplier/Vendor:	-	Country of Origin:	USA
Country of Distribution:	USA	Labeled Age Grade:	-
Quantity Submitted:	14 inks	Recommended Age Grade:	-
Testing Period:	3/11/21 – 3/24/21	Tested Age Grade:	-

OVERALL RESULT: **PASS**

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

QIMA (US), LLC

Edward S. Nagel

Edward Nagel
Manager, Laboratory Operations

TEST RESULT SUMMARY:

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

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 101 & 16 CFR 1303, Total Lead Content in Paints & Surface Coatings
PASS	CPSIA Section 106 & ASTM F963-17 Section 4.3.5.1(2), Soluble Heavy Metals Content in Paints & Surface Coatings
PASS	ASTM F2923-20 Clause 5 & 8, Total Lead and Soluble Elements in Paint and Surface Coatings
PASS	The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead Content in Surface Coatings of Children's Jewelry and Childcare Articles
PASS	Connecticut Public Act 10-113 (Substituted House Bill 5314), Total Cadmium Content in Children's Jewelry
PASS	Minnesota Chapter 347-S.F. No. 2510, Cadmium in Children's Jewelry
PASS	Maryland Chapter 578 (House Bill 145), Total Cadmium in Children's Jewelry
PASS	Washington Children's Safe Products Act RCW 70.240.020, Cadmium Content
PASS	Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead and Mercury in Surface Coatings
PASS	Canadian Toys Regulations SOR/2011-17 amended by SOR/2016-195 & SOR/2016-302, Section 23, Total Lead, Total Mercury and Leachable Metals in Surface Coatings
PASS	Mexican Environmental Health NOM-252-SSA1-2011, Soluble Elements from Toys and School Supplies
PASS	16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (8)
PASS	ASTM F2923-20 Clause 11, Phthalates in Plasticized Components of Children's Jewelry
PASS	Client Requirement, California Proposition 65, Phthalate Content (6)
PASS	Revised Code of Washington Section 70.240.020, Phthalates in Children's Product

DETAILED RESULTS:

CPSIA Section 101 & 16 CFR 1303, Total Lead Content in Paints & Surface Coatings
CPSIA Section 106 & ASTM F963-17 Section 4.3.5.1(2), Soluble Heavy Metals Content in Paints & Surface Coatings
ASTM F2923-20 Clause 5 & 8, Total Lead and Soluble Elements in Paint and Surface Coatings
Connecticut Public Act 10-113 (Substituted House Bill 5314), Total Cadmium Content in Children's Jewelry
The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead Content in Surface Coatings of Children's Jewelry and Childcare Articles
Minnesota Chapter 347-S.F. No. 2510, Cadmium in Children's Jewelry
Maryland Chapter 578 (House Bill 145), Total Cadmium in Children's Jewelry
Washington Children's Safe Products Act RCW 70.240.020, Cadmium Content

Analytical determination by ICP-OES (Method: CPSC-CH-E1003-09.1)

	Specimen No.						
	1+2+3*	4+5+6*	7+8+9*	10+11+12*	13+14*		
	Total Result	Total Result	Total Result	Total Result	Total Result		
Lead (Pb)	ND	ND	ND	ND	ND	**CPSIA Total Limit**	
						90 ppm	
Lead (Pb)	ND	ND	ND	ND	ND	**ASTM F2923-20 Limit**	
						90 ppm	
Lead (Pb)	ND	ND	ND	ND	ND	**Illinois Total Limit**	
						40 ppm	
Cadmium (Cd)	ND	ND	ND	ND	ND	**Connecticut Total Limit**	
						75 ppm	
Cadmium (Cd)	ND	ND	ND	ND	ND	**Minnesota Total Limit**	
						75 ppm	
Cadmium (Cd)	ND	ND	ND	ND	ND	**Maryland Total Limit**	
						75 ppm	
Cadmium (Cd)	ND	ND	ND	ND	ND	**Washington Total Limit**	
						40 ppm	
	Total Result	Total Result	Total Result	Total Result	Total Result	**ASTM F963 Soluble Limits**	**ASTM F2923 Soluble Limits**
Antimony (Sb)	-	ND	ND	ND	ND	60 ppm	60 ppm
Arsenic (As)	-	ND	ND	ND	ND	25 ppm	25 ppm
Barium (Ba)	-	21	21	32	94	1000 ppm	1000 ppm
Cadmium (Cd)	-	ND	ND	ND	ND	75 ppm	75 ppm
Chromium (Cr)	-	ND	6	ND	14	60 ppm	60 ppm
Lead (Pb)	-	ND	ND	ND	ND	90 ppm	-
Mercury (Hg)	-	ND	ND	ND	ND	60 ppm	60 ppm
Selenium (Se)	-	LT 9	LT 10	LT 10	LT 11	500 ppm	500 ppm
Conclusion	PASS	PASS	PASS	PASS	PASS		

ND = Not Detected (Reporting Limit = 5ppm)
Results are reported in parts per million (ppm)

Notes: The total heavy metals results do not exceed the soluble heavy metals limits; therefore, for specimens 4+5+6, 7+8+9 10+11+12 & 13+14, further soluble analyses were not conducted.
The total heavy metals results for specimen 1+2+3 exceeded the soluble heavy metals limits; therefore, a separate soluble analysis was conducted. Results presented on page 7 as specimen 1, 2, 3.

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

DETAILED RESULTS:

Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead and Mercury in Surface Coatings

Analytical determination by ICP-OES (Method: CPSC-CH-E1003-09.1)

	Specimen No.				
	1+2+3*	4+5+6*	7+8+9*	10+11+12*	
	Total Result	Total Result	Total Result	Total Result	**Total Limits**
Lead (Pb)	ND	ND	ND	ND	90 ppm
Mercury (Hg)	ND	ND	ND	ND	10 ppm
Conclusion	PASS	PASS	PASS	PASS	

	Specimen No.				
	13+14*	-	-	-	
	Total Result	Total Result	Total Result	Total Result	**Total Limits**
Lead (Pb)	ND	-	-	-	90 ppm
Mercury (Hg)	ND	-	-	-	10 ppm
Conclusion	PASS	-	-	-	

ND = Not Detected (Reporting Limit = 5ppm)
Results are reported in parts per million (ppm)

DETAILED RESULTS:

Canadian Toys Regulations SOR/2011-17 amended by SOR/2016-195 & SOR/2016-302, Section 23, Total Lead, Total Mercury and Leachable Metals in Surface Coatings

Analytical determination by ICP-OES (Method: CPSC-CH-E1003-09.1)

	Specimen No.						
	1+2+3*	4+5+6*	7+8+9*	10+11+12*	13+14*	-	
	Total Result	Total Result	Total Result	Total Result	Total Result	Total Result	**Total Limits**
Lead (Pb)	ND	ND	ND	ND	ND	-	90 ppm
Mercury (Hg)	ND	ND	ND	ND	ND	-	10 ppm
	Total Result	Total Result	Total Result	Total Result	Total Result	Total Result	**Leachable Limits**
Antimony (Sb)	-	ND	ND	ND	ND	-	1000 ppm
Arsenic (As)	-	ND	ND	ND	ND	-	1000 ppm
Barium (Ba)	-	21	21	32	94	-	1000 ppm
Cadmium (Cd)	-	ND	ND	ND	ND	-	1000 ppm
Selenium (Se)	-	LT 9	LT 10	LT 10	LT 11	-	1000 ppm
Conclusion	PASS	PASS	PASS	PASS	PASS	-	

ND = Not Detected (Reporting Limit = 5ppm)
Results are reported in parts per million (ppm)

Notes: The total metal results do not exceed the leachable limits; therefore, for specimens 4+5+6, 7+8+9 10+11+12 & 13+14, leachable analyses were not conducted.

The total heavy metals results for specimen 1+2+3 exceeded the leachable limits; therefore, a separate leachable analysis was conducted. Results presented on pages 8 as specimens 1, 2, 3.

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

DETAILED RESULTS:

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

Analytical determination by ICP-OES (Method: CPSC-CH-E1003-09.1)

	Specimen No.						
	4+5+6*	7+8+9*	10+11+12*	13+14*	-	-	
	Total Result	Total Result	Total Result	Total Result	Total Result	Total Result	**Soluble Limits**
Antimony (Sb)	ND	ND	ND	ND	-	-	60 ppm
Arsenic (As)	ND	ND	ND	ND	-	-	25 ppm
Barium (Ba)	21	21	32	94	-	-	1000 ppm
Cadmium (Cd)	ND	ND	ND	ND	-	-	75 ppm
Chromium (Cr)	ND	6	ND	14	-	-	60 ppm
Lead (Pb)	ND	ND	ND	ND	-	-	90 ppm
Mercury (Hg)	ND	ND	ND	ND	-	-	60 ppm
Selenium (Se)	LT 9	LT 10	LT 10	LT 11	-	-	500 ppm
Conclusion	PASS	PASS	PASS	PASS	-	-	

ND = Not Detected (Reporting Limit = 5ppm)
Results reported in parts per million (ppm)

Notes: The total heavy metals results do not exceed the soluble heavy metals limits; therefore, further soluble analyses were not conducted.

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

DETAILED RESULTS:

CPSIA Section 106 & ASTM F963-17 Section 4.3.5.1(2), Soluble Heavy Metals Content in Paints & Surface Coatings
ASTM F2923-20 Clause 8, Soluble Elements in Paint and Surface Coatings
Mexican Environmental Health NOM-252-SSA1-2011, Soluble Elements from Toys and School Supplies

Analytical determination by ICP-OES (Method: ASTM F963-17 Section 8.3)

	Specimen No.						
	1	2	3	-	-	-	
	Soluble Result	Soluble Result	Soluble Result	Soluble Result	Soluble Result	Soluble Result	**Soluble Limits**
Antimony (Sb)	ND	ND	ND	-	-	-	60 ppm
Arsenic (As)	ND	ND	ND	-	-	-	25 ppm
Barium (Ba)	ND	ND	53	-	-	-	1000 ppm
Cadmium (Cd)	ND	ND	ND	-	-	-	75 ppm
Chromium (Cr)	ND	ND	ND	-	-	-	60 ppm
Lead (Pb)	ND	ND	ND	-	-	-	90 ppm
Mercury (Hg)	ND	ND	ND	-	-	-	60 ppm
Selenium (Se)	ND	ND	ND	-	-	-	500 ppm
Conclusion	PASS	PASS	PASS	-	-	-	

ND = Not Detected (Reporting Limit = 5ppm)
Results reported in parts per million (ppm)

DETAILED RESULTS:

Canadian Toys Regulations SOR/2011-17 as amended, Section 23, Leachable Metals in Surface Coatings

Analytical determination by ICP-OES (Method: Health Canada C03)

	Specimen No.				
	1	2	3	-	
	Leachable Result	Leachable Result	Leachable Result	Leachable Result	**Leachable Limits**
Antimony (Sb)	ND	ND	ND	-	1000 ppm
Arsenic (As)	ND	ND	ND	-	1000 ppm
Barium (Ba)	ND	ND	21	-	1000 ppm
Cadmium (Cd)	ND	ND	ND	-	1000 ppm
Selenium (Se)	ND	ND	ND	-	1000 ppm
Conclusion	PASS	PASS	PASS	-	

ND = Not Detected (Reporting Limit = 5ppm)
Results are reported in parts per million (ppm)

DETAILED RESULTS:

16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (8)
ASTM F2923-20 Clause 11, Phthalates in Plasticized Components of Children's Jewelry
Client Requirement, California Proposition 65, Phthalate Content (6)

Analytical determination by GC/MS (Method: CPSC-CH-C1001-09.4)

	Specimen No.					
Phthalate	1+2+3*	4+5+6*	7+8+9*	10+11+12*	**16 CFR 1307 & ASTM F2923 Limits (%)**	**Client Limits, Cal Prop (%)**
dibutyl phthalate (DBP)	ND	ND	ND	ND	0.1	0.1
benzyl butyl phthalate (BBP)	ND	ND	ND	ND	0.1	0.1
di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	0.1	0.1
diisononyl phthalate (DINP)	ND	ND	ND	ND	0.1	0.1
diisodecyl phthalate (DIDP)	ND	ND	ND	ND	-	0.1
di-n-hexyl phthalate (DnHP/DHEXP)	ND	ND	ND	ND	0.1	0.1
diisobutyl phthalate (DiBP)	ND	ND	ND	ND	0.1	-
di-n-pentyl phthalate (DnPP/DPENP)	ND	ND	ND	ND	0.1	-
dicyclohexyl phthalate (DCHP)	ND	ND	ND	ND	0.1	-
Conclusion	PASS	PASS	PASS	PASS		

ND = Not Detected (Reporting Limit = 0.01%, DINP & DIDP reporting limit = 0.02%)
Results reported as percent by weight

***Note:** Composited results are based on specimen of least mass resulting in highest potential concentration.

DETAILED RESULTS:

16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (8)
ASTM F2923-20 Clause 11, Phthalates in Plasticized Components of Children's Jewelry
Client Requirement, California Proposition 65, Phthalate Content (6)

Analytical determination by GC/MS (Method: CPSC-CH-C1001-09.4)

	Specimen No.					
Phthalate	13+14*	-	-	-	**16 CFR 1307 & ASTM F2923 Limits (%)**	**Client Limits, Cal Prop (%)**
dibutyl phthalate (DBP)	ND	-	-	-	0.1	0.1
benzyl butyl phthalate (BBP)	ND	-	-	-	0.1	0.1
di-(2-ethylhexyl) phthalate (DEHP)	ND	-	-	-	0.1	0.1
diisononyl phthalate (DINP)	ND	-	-	-	0.1	0.1
diisodecyl phthalate (DIDP)	ND	-	-	-	-	0.1
di-n-hexyl phthalate (DnHP/DHEXP)	ND	-	-	-	0.1	0.1
diisobutyl phthalate (DiBP)	ND	-	-	-	0.1	-
di-n-pentyl phthalate (DnPP/DPENP)	ND	-	-	-	0.1	-
dicyclohexyl phthalate (DCHP)	ND	-	-	-	0.1	-
Conclusion	PASS	-	-	-		

ND = Not Detected (Reporting Limit = 0.01%, DINP & DIDP reporting limit = 0.02%)
Results reported as percent by weight

***Note:** Composited results are based on specimen of least mass resulting in highest potential concentration.

DETAILED RESULTS:

Revised Code of Washington Section 70.240.020, Phthalates in Children's Product

Analytical determination by GC/MS (Method: CPSC-CH-C1001-09.4)

	Specimen No.					
Phthalate	1+2+3*	4+5+6*	7+8+9*	10+11+12*	13+14*	**Limits (%)**
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	ND	0.1
Benzyl Butyl Phthalate (BBP)	ND	ND	ND	ND	ND	0.1
Di-(2-ethylhexyl) Phthalate (DEHP)	ND	ND	ND	ND	ND	0.1
Di-n-octyl Phthalate (DnOP)	ND	ND	ND	ND	ND	0.1
Diisononyl Phthalate (DINP)	ND	ND	ND	ND	ND	0.1
Diisodecyl Phthalate (DIDP)	ND	ND	ND	ND	ND	0.1
Sum of Above (6)	ND	ND	ND	ND	ND	0.1
Conclusion	PASS	PASS	PASS	PASS	PASS	

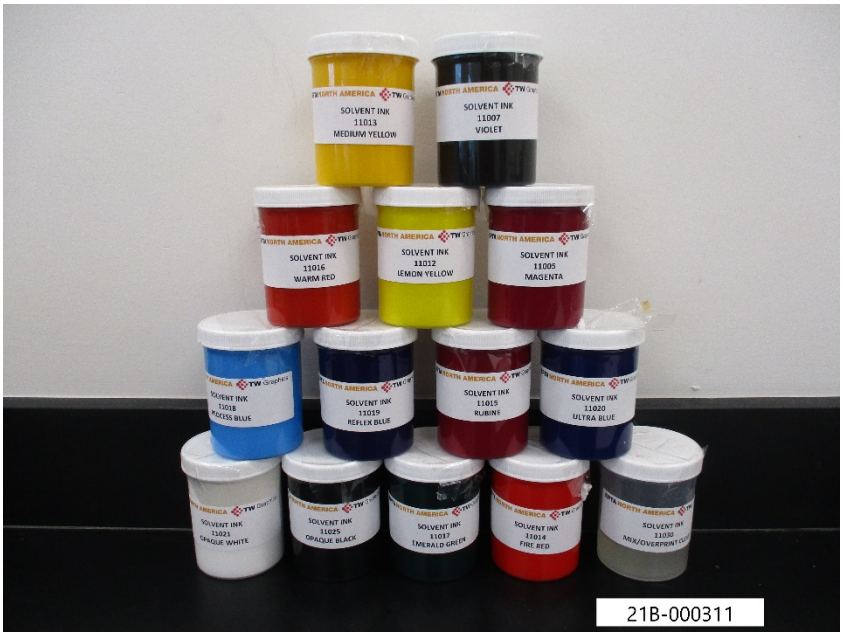
ND = Not Detected (Reporting Limit = 0.01%, DINP & DIDP reporting limit = 0.02%)
Results reported as percent by weight

***Note:** Composited results are based on specimen of least mass resulting in highest potential concentration.

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description (Color)	Location
1	White Ink	TW11021 - White
2	Black Ink	TW11025 - Black
3	Green Ink	TW11017 - Emerald Green
4	Red Ink	TW11014 - Fire Red
5	Clear Ink	TW11030 - Mix/Overprint Clear
6	Blue Ink	TW11018 - Process Blue
7	Blue Ink	TW11019 - Reflex Blue
8	Red Ink	TW11015 - Rubine Red
9	Blue Ink	TW11020 - Ultra Blue
10	Red Ink	TW11016 - Warm Red
11	Yellow Ink	TW11012 - Lemon Yellow
12	Magenta Ink	TW11005 - Magenta
13	Yellow Ink	TW11013 - Medium Yellow
14	Violet Ink	TW11007 - Violet

SAMPLE PHOTO:



-End Report-