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AT-1500

TEST REPORT

Company:	A.M. Ramp & Co GmbH (Ruco Druckfarben)	Test Report #	15H-02850
Recipient:	Alfred Beckers	Date of Issue:	June 11, 2015
Recipient Email:	abeckers@ruco-inks.com.hk	Pages:	Page 1 of 14
cc to Email:	-	Date Received:	June 05, 2015

SAMPLE INFORMATION:

Description:	T200-X15M0439 Ink, T120-X15R0438 Ink		
Assortment:	-	Purchase Order Number:	-
SKU/style No.:	-	Toy Co./Agency:	-
Factory/Supplier/Vendor:	-	Country of Origin:	Germany
Country of Distribution:	Germany	Labeled Age Grade:	-
Quantity Submitted:	1 lot	Recommended Age Grade:	-
Testing Period:	06/05/2015 – 06/11/2015	Tested Age Grade:	-

OVERALL RESULT: **PASS**

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, Total Elements Screening in Paint and Similar Surface Coatings
PASS	ASTM F2923-14 Clause 8, Total Elements Screening 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	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	Canada Toys Regulations (SOR/2011-17) Item 23, Total Elements Screening in Surface Coating Materials
PASS	Canadian Surface Coating Materials Regulations (SOR/2005-109), Total Lead and Mercury in Surface Coating Materials

Note:
"The North American Ink Package was requested which allows up to 3 inks to be composited and a total screen analysis performed. For the two samples submitted, a mixture of different inks were combined and labeled as samples T200-X15M0439 and T120-X15R0438. As the samples are a combination of mixed inks, no assessment can be made relative to the individual inks used to create the submitted samples and the results are representative of the combined samples only."

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DETAILED RESULTS:

CPSIA Section 106 & ASTM F963-11 Clause 4.3.5, Total Elements Screening in Paint and Similar Surface Coatings

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

Specimen No.	1	2	---	---	---	**Limit**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Soluble (ppm)**
Total Sb	ND	ND	---	---	---	**60**
Total As	ND	ND	---	---	---	**25**
Total Ba	ND	ND	---	---	---	**1000**
Total Cd	ND	ND	---	---	---	**75**
Total Cr	ND	ND	---	---	---	**60**
Total Pb	ND	ND	---	---	---	**90**
Total Hg	ND	ND	---	---	---	**60**
Total Se	ND	ND	---	---	---	**500**
Conclusion	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: Sb, As, Ba, Cd, Cr, Pb, Hg = 20ppm; Se = 50ppm)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
The total heavy metals screening results do not exceed the soluble heavy metal limits, therefore, further soluble analyses were not conducted.

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DETAILED RESULTS:

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

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

Specimen No.	1	2	---	---	---	**Limit**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Soluble (ppm)**
Total Sb	ND	ND	---	---	---	**60**
Total As	ND	ND	---	---	---	**25**
Total Ba	ND	ND	---	---	---	**1000**
Total Cd	ND	ND	---	---	---	**75**
Total Cr	ND	ND	---	---	---	**60**
Total Hg	ND	ND	---	---	---	**60**
Total Se	ND	ND	---	---	---	**500**
Conclusion	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: Sb, As, Ba, Cd, Cr, Hg = 20ppm; Se = 50ppm)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
The total heavy metals screening results do not exceed the soluble heavy metal limits, therefore, further soluble analyses were not conducted.

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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	---	---	---	**Limit**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Total (ppm)**
Total Pb	ND	ND	---	---	---	**90**
Conclusion	PASS	PASS	---	---	---	

Note:
Pb = Lead
ppm (Parts per million) = mg/kg (Milligrams per kilogram)
LT = Less than
ND = Not detected (Reporting Limit = 20ppm)
Composite results are based on specimen of least mass resulting in highest potential concentration.

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cc to Email:	-	Date Received:	June 05, 2015

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	---	---	---	**Limit**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Total (ppm)**
Total Pb	ND	ND	---	---	---	**40**
Conclusion	PASS	PASS	---	---	---	

Note:
Pb = Lead
ppm (Parts per million) = mg/kg (Milligrams per kilogram)
LT = Less than
ND = Not detected (Reporting Limit = 20ppm)
Composite results are based on specimen of least mass resulting in highest potential concentration.

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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	---	---	---	**Limit**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Total (ppm)**
Total Cd	ND	ND	---	---	---	**75**
Conclusion	PASS	PASS	---	---	---	

Note:
Cd = Cadmium
ppm (Parts per million) = mg/kg (Milligrams per kilogram)
LT = Less than
ND = Not detected (Reporting Limit = 20ppm)
Composite results are based on specimen of least mass resulting in highest potential concentration.

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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	---	---	---	**Limit**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Soluble (ppm)**
Total Cd	ND	ND	---	---	---	**75**
Conclusion	PASS	PASS	---	---	---	

Note:
Cd = Cadmium
ppm (Parts per million) = mg/kg (Milligrams per kilogram)
LT = Less than
ND = Not detected (Reporting Limit = 20ppm)
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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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	---	---	---	
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Limit (ppm)**
DBP	ND	ND	---	---	---	**1000**
BBP	ND	ND	---	---	---	**1000**
DEHP	ND	ND	---	---	---	**1000**
DnOP	ND	ND	---	---	---	**1000**
DINP	ND	ND	---	---	---	**1000**
DIDP	ND	ND	---	---	---	**1000**
Conclusion	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 = 120ppm)
Composite results are based on specimen of least mass resulting in highest potential concentration.

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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	---	---	---	
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Limit (ppm)**
DBP	ND	ND	---	---	---	**1000**
BBP	ND	ND	---	---	---	**1000**
DEHP	ND	ND	---	---	---	**1000**
DINP	ND	ND	---	---	---	**1000**
DIDP	ND	ND	---	---	---	**1000**
DnHP	ND	ND	---	---	---	**1000**
Conclusion	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 = 120ppm)
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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DETAILED RESULTS:

Canada Toys Regulations (SOR/2011-17) Item 23, Total Elements Screening 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	---	---	---	**Limit**
Elements	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Total (ppm)**
Total Pb	ND	ND	---	---	---	**90**
Total Hg	ND	ND	---	---	---	**10**
Elements	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Leachable (ppm)**
Total Sb	ND	ND	---	---	---	**1000**
Total As	ND	ND	---	---	---	**1000**
Total Ba	ND	ND	---	---	---	**1000**
Total Cd	ND	ND	---	---	---	**1000**
Total Se	ND	ND	---	---	---	**1000**
Conclusion	PASS	PASS	---	---	---	

Note:
Pb = Lead; Hg = Mercury;
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: Pb, Hg = 10ppm; Sb, As, Ba, Cd, Se = 50ppm)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
The total heavy metal results do not exceed the leachable heavy metal limits, therefore, further leachable analyses were not conducted.

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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	---	---	---	**Limit**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Total (ppm)**
Total Pb	ND	ND	---	---	---	**90**
Total Hg	ND	ND	---	---	---	**10**
Conclusion	PASS	PASS	---	---	---	

Note:
Pb = Lead, Hg = Mercury
ppm (Parts per million) = mg/kg (Milligrams per kilogram)
LT = Less than
ND = Not detected (Reporting Limit = 10ppm)
Composite results are based on specimen of least mass resulting in highest potential concentration.

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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Grey ink T120-X15R0438	Raw material
2	Dull grey ink T200-X15M0439	Raw material

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SAMPLE PHOTO:

-End Report-