

## LABORATORY REPORT

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**Date Received:** 02/02/2018  
**Date Reported:** 02/09/2018  
**P.O. Number:**

**Work Order#:** 1802-02473

**Project Name:** CYAN, MAGENTA, YELLOW, BLACK, WHITE & VARNISH INKS

Enclosed are analytical results and Chain of Custody for your project referenced above. Chemical analysis is performed by our Warwick, RI laboratory, unless noted otherwise.

References: ASTM F963-16, CPSC-CH-E1001-08.2, CPSC-CH-E1002-08.2, CPSC-CH-E1003-09, CPSC-CH-E1001-09.3. The specific methodologies and/or technologies are listed in the methods column for the Laboratory Report.

The Detection Limit is defined as the lowest level that can be reliably achieved during the routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order. This report shall not be reproduced, except in its entirety, without the prior written consent of TTL Laboratories.

CPSC-Accepted Testing Laboratory - Identification Number: 1097

ISO/IEC 17025 accreditation issued by A2LA - Certificates 2815.01 & 2815.02

We certify that the following results are true and accurate to the best of our knowledge. Should you have questions or need further assistance, please contact us at 401-562-1360.

Approved by:



Benjamin Miranda  
Technical Director



**LABORATORY REPORT**

**Pigmentinc® P70i**

Work Order #: 1802-02473

**Project Name:** CYAN, MAGENTA, YELLOW, BLACK, WHITE & VARNISH INKS

**Sample Number:** 001

**Sample Description:** CYAN Y60194 BATCH: 2072 DOM: 12/6/17

PARAMETER	SAMPLE RESULTS	DET. LIMITS	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL METALS ANALYSIS						
Lead	<19	19	ppm	ICP	2/6/2018	AGJ
PHTHALATE ANALYSIS						
Bis(2-ethylhexyl)phthalate (DEHP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Di-n-butyl phthalate (DBP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Butylbenzyl phthalate (BBP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Di-n-octyl phthalate (DNOP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Diisononyl phthalate (DINP)	<0.03	0.03	%	GC/MS	2/7/2018	JEB
Diisodecyl phthalate (DIDP)	<0.03	0.03	%	GC/MS	2/7/2018	JEB
Di-n-hexyl phthalate (DnHP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB

Note 1: Sample is in compliance with the CPSIA limit of 90 ppm for lead in surface coating materials effective August 14, 2009.

Note 2: The concentrations of Phthalates detected in this sample are in compliance with the CPSIA limit of 0.1% for each compound effective February 10, 2009.

Note 3: Based on the California Proposition 65 settlement limit of 90 ppm for lead in the surface coating materials, this sample would be in compliance with the total lead requirements of the regulation.

Note 4: The sample is considered exempt from the warning requirements of California Proposition 65 for the phthalate compounds DEHP, DBP, BBP, DINP, DIDP and DnHP, as the concentrations detected are less than 0.1%.

The < sign denotes not detected.



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**Project Name:** CYAN, MAGENTA, YELLOW, BLACK, WHITE & VARNISH INKS

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**Sample Number:** 002

**Sample Description:** MAGENTA Y60294 BATCH: 2059 DOM: 11/30/17

PARAMETER	SAMPLE RESULTS	DET. LIMITS	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL METALS ANALYSIS						
Lead	<20	20	ppm	ICP	2/6/2018	AGJ
PHTHALATE ANALYSIS						
Bis(2-ethylhexyl)phthalate (DEHP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Di-n-butyl phthalate (DBP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Butylbenzyl phthalate (BBP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Di-n-octyl phthalate (DNOP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Diisononyl phthalate (DINP)	<0.03	0.02	%	GC/MS	2/7/2018	JEB
Diisodecyl phthalate (DIDP)	<0.03	0.02	%	GC/MS	2/7/2018	JEB
Di-n-hexyl phthalate (DnHP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB

Note 1: Sample is in compliance with the CPSIA limit of 90 ppm for lead in surface coating materials effective August 14, 2009.

Note 2: The concentrations of Phthalates detected in this sample are in compliance with the CPSIA limit of 0.1% for each compound effective February 10, 2009.

Note 3: Based on the California Proposition 65 settlement limit of 90 ppm for lead in the surface coating materials, this sample would be in compliance with the total lead requirements of the regulation.

Note 4: The sample is considered exempt from the warning requirements of California Proposition 65 for the phthalate compounds DEHP, DBP, BBP, DINP, DIDP and DnHP, as the concentrations detected are less than 0.1%.

The < sign denotes not detected.



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**Project Name:** CYAN, MAGENTA, YELLOW, BLACK, WHITE & VARNISH INKS

**Sample Number:** 003

**Sample Description:** YELLOW KH-I-30Y BATCH: 0001 DOM: 01/30/18

PARAMETER	SAMPLE RESULTS	DET. LIMITS	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL METALS ANALYSIS						
Lead	<20	20	ppm	ICP	2/6/2018	AGJ
PHTHALATE ANALYSIS						
Bis(2-ethylhexyl)phthalate (DEHP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Di-n-butyl phthalate (DBP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Butylbenzyl phthalate (BBP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Di-n-octyl phthalate (DNOP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Diisononyl phthalate (DINP)	<0.03	0.03	%	GC/MS	2/7/2018	JEB
Diisodecyl phthalate (DIDP)	<0.03	0.03	%	GC/MS	2/7/2018	JEB
Di-n-hexyl phthalate (DnHP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB

Note 1: Sample is in compliance with the CPSIA limit of 90 ppm for lead in surface coating materials effective August 14, 2009.

Note 2: The concentrations of Phthalates detected in this sample are in compliance with the CPSIA limit of 0.1% for each compound effective February 10, 2009.

Note 3: Based on the California Proposition 65 settlement limit of 90 ppm for lead in the surface coating materials, this sample would be in compliance with the total lead requirements of the regulation.

Note 4: The sample is considered exempt from the warning requirements of California Proposition 65 for the phthalate compounds DEHP, DBP, BBP, DINP, DIDP and DnHP, as the concentrations detected are less than 0.1%.

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**Project Name:** CYAN, MAGENTA, YELLOW, BLACK, WHITE & VARNISH INKS

**Sample Number:** 004

**Sample Description:** BLACK Y60494 BATCH: 2063 DOM: 01/8/18

PARAMETER	SAMPLE RESULTS	DET. LIMITS	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL METALS ANALYSIS						
Lead	<19	19	ppm	ICP	2/6/2018	AGJ
PHTHALATE ANALYSIS						
Bis(2-ethylhexyl)phthalate (DEHP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Di-n-butyl phthalate (DBP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Butylbenzyl phthalate (BBP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Di-n-octyl phthalate (DNOP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Diisononyl phthalate (DINP)	<0.03	0.03	%	GC/MS	2/7/2018	JEB
Diisodecyl phthalate (DIDP)	<0.03	0.03	%	GC/MS	2/7/2018	JEB
Di-n-hexyl phthalate (DnHP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB

Note 1: Sample is in compliance with the CPSIA limit of 90 ppm for lead in surface coating materials effective August 14, 2009.

Note 2: The concentrations of Phthalates detected in this sample are in compliance with the CPSIA limit of 0.1% for each compound effective February 10, 2009.

Note 3: Based on the California Proposition 65 settlement limit of 90 ppm for lead in the surface coating materials, this sample would be in compliance with the total lead requirements of the regulation.

Note 4: The sample is considered exempt from the warning requirements of California Proposition 65 for the phthalate compounds DEHP, DBP, BBP, DINP, DIDP and DnHP, as the concentrations detected are less than 0.1%.

The < sign denotes not detected.



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**Project Name:** CYAN, MAGENTA, YELLOW, BLACK, WHITE & VARNISH INKS

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**Sample Number:** 005

**Sample Description:** WHITE TG-3-RWLED BATCH: 0001 DOM: 01/04/18

PARAMETER	SAMPLE RESULTS	DET. LIMITS	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL METALS ANALYSIS						
Lead	<19	19	ppm	ICP	2/6/2018	AGJ
PHTHALATE ANALYSIS						
Bis(2-ethylhexyl)phthalate (DEHP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Di-n-butyl phthalate (DBP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Butylbenzyl phthalate (BBP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Di-n-octyl phthalate (DNOP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Diisononyl phthalate (DINP)	<0.03	0.03	%	GC/MS	2/7/2018	JEB
Diisodecyl phthalate (DIDP)	<0.03	0.03	%	GC/MS	2/7/2018	JEB
Di-n-hexyl phthalate (DnHP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB

Note 1: Sample is in compliance with the CPSIA limit of 90 ppm for lead in surface coating materials effective August 14, 2009.

Note 2: The concentrations of Phthalates detected in this sample are in compliance with the CPSIA limit of 0.1% for each compound effective February 10, 2009.

Note 3: Based on the California Proposition 65 settlement limit of 90 ppm for lead in the surface coating materials, this sample would be in compliance with the total lead requirements of the regulation.

Note 4: The sample is considered exempt from the warning requirements of California Proposition 65 for the phthalate compounds DEHP, DBP, BBP, DINP, DIDP and DnHP, as the concentrations detected are less than 0.1%.

The < sign denotes not detected.°



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**Project Name:** CYAN, MAGENTA, YELLOW, BLACK, WHITE & VARNISH INKS

**Sample Number:** 006

**Sample Description:** VARNISH Y62094 BATCH: 0139 DOM: 12-12-17

PARAMETER	SAMPLE RESULTS	DET. LIMITS	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL METALS ANALYSIS						
Lead	<20	20	ppm	ICP	2/6/2018	AGJ
PHTHALATE ANALYSIS						
Bis(2-ethylhexyl)phthalate (DEHP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Di-n-butyl phthalate (DBP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Butylbenzyl phthalate (BBP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Di-n-octyl phthalate (DNOP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB
Diisononyl phthalate (DINP)	<0.03	0.03	%	GC/MS	2/7/2018	JEB
Diisodecyl phthalate (DIDP)	<0.03	0.03	%	GC/MS	2/7/2018	JEB
Di-n-hexyl phthalate (DnHP)	<0.01	0.01	%	GC/MS	2/7/2018	JEB

Note 1: Sample is in compliance with the CPSIA limit of 90 ppm for lead in surface coating materials effective August 14, 2009.

Note 2: The concentrations of Phthalates detected in this sample are in compliance with the CPSIA limit of 0.1% for each compound effective February 10, 2009.

Note 3: Based on the California Proposition 65 settlement limit of 90 ppm for lead in the surface coating materials, this sample would be in compliance with the total lead requirements of the regulation.

Note 4: The sample is considered exempt from the warning requirements of California Proposition 65 for the phthalate compounds DEHP, DBP, BBP, DINP, DIDP and DnHP, as the concentrations detected are less than 0.1%.

The < sign denotes not detected.



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