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AT-1500

TEST REPORT

Company:	Huffermen, Inc.	Test Report #	15H-01306
Recipient:	Eric Miller	Date of Issue:	April 13, 2015
Recipient Email:	eric@huffermen.com	Pages:	Page 1 of 16
cc to Email:	-	Date Received:	March 25, 2015

SAMPLE INFORMATION:

Description:	Lids		
Assortment:	-	Purchase Order Number:	-
SKU/style No.:	-	Toy Co./Agency:	-
Factory/Supplier/Vendor:	-	Country of Origin:	-
Country of Distribution:	-	Labeled Age Grade:	-
Quantity Submitted:	6 pcs per style	Requested Age Grade:	3+
Testing Period:	04/01/2015 – 04/13/2015	Tested Age Grade:	Over 3 years of age

OVERALL RESULT: **PASS**

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

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 101, Total Lead in Substrate Materials
PASS	California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets for Food Containers[#]
PASS	FDA 21 CFR 177.1520, Polyethylene
PASS	FDA 21 CFR 177.1520, Polypropylene Homopolymers
PASS	16 CFR 1500 Federal Hazardous Substances Act (FHSA), Mechanical Hazards
PASS	16 CFR 1500.3(c)(6)(vi), Flammability of Solids Flammable hazards evaluated as described in 16 CFR 1500.44.

ANSECO GROUP (HK) LIMITED

Vincent Chow Wai Kit
Manager, Chemical Laboratory

ANSECO GROUP (HK) LIMITED

Joseph Kwan Tsz Hung
Assistant Manager, Physical Laboratory

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DETAILED RESULTS:

CPSIA Section 101, Total Lead in Substrate Materials

Analysis performed by Inductively Coupled Plasma-Optical Emission Spectrometry to determine compliance with the above referenced regulation.
[Referenced Test Method: CPSC-CH-E1001-08.2 (Metal) and/or CPSC-CH-E1002-08.2 (Non-Metal)]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14	**Limit**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Total (ppm)**
Total Pb	ND	ND	ND	ND	ND	**100**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	15	---	---	---	---	**Limit**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Total (ppm)**
Total Pb	ND	---	---	---	---	**100**
Conclusion	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:

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

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+3	4+5+6	7+8+9	10+11+12	13+14	
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Limit (ppm)**
DBP	ND	ND	ND	ND	ND	**1000**
BBP	ND	ND	ND	ND	ND	**1000**
DEHP	ND	ND	ND	ND	ND	**1000**
DINP	ND	ND	ND	ND	ND	**1000**
DIDP	ND	ND	ND	ND	ND	**1000**
DnHP	ND	ND	ND	ND	ND	**1000**
Conclusion	PASS	PASS	PASS	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.

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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 regulation. [Referenced Test Method: CPSC-CH-C1001-09.3]

Specimen No.	15	---	---	---	---	
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Limit (ppm)**
DBP	ND	---	---	---	---	**1000**
BBP	ND	---	---	---	---	**1000**
DEHP	ND	---	---	---	---	**1000**
DINP	ND	---	---	---	---	**1000**
DIDP	ND	---	---	---	---	**1000**
DnHP	ND	---	---	---	---	**1000**
Conclusion	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.

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DETAILED RESULTS:

FDA 21 CFR 177.1210, Closures with Sealing Gaskets for Food Containers

Analysis performed by food simulating solvents extractions to determine compliance with above referenced regulation. [Referenced Test Method: FDA 21 CFR 177.1210#]

Specimen No.			15		
Test Item	Test Condition		Result	**RL**	**Specification**
	Temperature	Duration			
Distilled water extractive (ppm)	Fill boiling, cool to 100°F	70 minutes	ND	**10**	**50**
Conclusion			PASS		

Note:
°F = Degree Fahrenheit
ppm (Parts per million) = mg/kg (Milligrams per kilogram)
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1210 Table 2 Section 2.

*The chloroform-soluble extractive analysis was conducted.

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DETAILED RESULTS:

FDA 21 CFR 177.1520, Polyethylene

Analysis performed by food simulating solvents extractions to determine compliance with above referenced regulation. [Referenced Test Method: FDA 21 CFR 177.1520]

Specimen No.			1		
Test Item	Test Condition		Result	**RL**	**Specification**
	Temperature	Duration			
Density (g/cc)	NA	NA	0.916	**NA**	**0.85-1.00**
n-Hexane extractive (% w/w)	50°C	2 hours	1.7	**0.4**	**5.5**
Xylene extractive (% w/w)	Reflux	2 hours	2.1	**1.0**	**11.3**
Conclusion			PASS		

Specimen No.			2		
Test Item	Test Condition		Result	**RL**	**Specification**
	Temperature	Duration			
Density (g/cc)	NA	NA	0.922	**NA**	**0.85-1.00**
n-Hexane extractive (% w/w)	50°C	2 hours	1.3	**0.4**	**5.5**
Xylene extractive (% w/w)	Reflux	2 hours	1.5	**1.0**	**11.3**
Conclusion			PASS		

Note:
°C = Degree Celcius
g/cc = Grams per cubic centimeter
% w/w = Percent by weight
NA = Not applicable
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1520 (c) 2.1.

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DETAILED RESULTS:

FDA 21 CFR 177.1520, Polyethylene

Analysis performed by food simulating solvents extractions to determine compliance with above referenced regulation. [Referenced Test Method: FDA 21 CFR 177.1520]

Specimen No.			3		
Test Item	Test Condition		Result	**RL**	**Specification**
	Temperature	Duration			
Density (g/cc)	NA	NA	0.926	**NA**	**0.85-1.00**
n-Hexane extractive (% w/w)	50°C	2 hours	1.1	**0.4**	**5.5**
Xylene extractive (% w/w)	Reflux	2 hours	1.5	**1.0**	**11.3**
Conclusion			PASS		

Specimen No.			4		
Test Item	Test Condition		Result	**RL**	**Specification**
	Temperature	Duration			
Density (g/cc)	NA	NA	0.942	**NA**	**0.85-1.00**
n-Hexane extractive (% w/w)	50°C	2 hours	1.2	**0.4**	**5.5**
Xylene extractive (% w/w)	Reflux	2 hours	1.4	**1.0**	**11.3**
Conclusion			PASS		

Note:
°C = Degree Celcius
g/cc = Grams per cubic centimeter
% w/w = Percent by weight
NA = Not applicable
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1520 (c) 2.1.

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DETAILED RESULTS:

FDA 21 CFR 177.1520, Polyethylene

Analysis performed by food simulating solvents extractions to determine compliance with above referenced regulation. [Referenced Test Method: FDA 21 CFR 177.1520]

Specimen No.			5		
Test Item	Test Condition		Result	**RL**	**Specification**
	Temperature	Duration			
Density (g/cc)	NA	NA	0.916	**NA**	**0.85-1.00**
n-Hexane extractive (% w/w)	50°C	2 hours	1.7	**0.4**	**5.5**
Xylene extractive (% w/w)	Reflux	2 hours	1.7	**1.0**	**11.3**
Conclusion			PASS		

Specimen No.			6		
Test Item	Test Condition		Result	**RL**	**Specification**
	Temperature	Duration			
Density (g/cc)	NA	NA	0.923	**NA**	**0.85-1.00**
n-Hexane extractive (% w/w)	50°C	2 hours	1.5	**0.4**	**5.5**
Xylene extractive (% w/w)	Reflux	2 hours	1.7	**1.0**	**11.3**
Conclusion			PASS		

Note:
°C = Degree Celcius
g/cc = Grams per cubic centimeter
% w/w = Percent by weight
NA = Not applicable
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1520 (c) 2.1.

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DETAILED RESULTS:

FDA 21 CFR 177.1520, Polyethylene

Analysis performed by food simulating solvents extractions to determine compliance with above referenced regulation. [Referenced Test Method: FDA 21 CFR 177.1520]

Specimen No.			7		
Test Item	Test Condition		Result	**RL**	**Specification**
	Temperature	Duration			
Density (g/cc)	NA	NA	0.930	**NA**	**0.85-1.00**
n-Hexane extractive (% w/w)	50°C	2 hours	1.1	**0.4**	**5.5**
Xylene extractive (% w/w)	Reflux	2 hours	1.4	**1.0**	**11.3**
Conclusion			PASS		

Specimen No.			8		
Test Item	Test Condition		Result	**RL**	**Specification**
	Temperature	Duration			
Density (g/cc)	NA	NA	0.923	**NA**	**0.85-1.00**
n-Hexane extractive (% w/w)	50°C	2 hours	1.4	**0.4**	**5.5**
Xylene extractive (% w/w)	Reflux	2 hours	1.5	**1.0**	**11.3**
Conclusion			PASS		

Note:
°C = Degree Celcius
g/cc = Grams per cubic centimeter
% w/w = Percent by weight
NA = Not applicable
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1520 (c) 2.1.

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DETAILED RESULTS:

FDA 21 CFR 177.1520, Polyethylene

Analysis performed by food simulating solvents extractions to determine compliance with above referenced regulation. [Referenced Test Method: FDA 21 CFR 177.1520]

Specimen No.			9		
Test Item	Test Condition		Result	**RL**	**Specification**
	Temperature	Duration			
Density (g/cc)	NA	NA	0.903	**NA**	**0.85-1.00**
n-Hexane extractive (% w/w)	50°C	2 hours	1.1	**0.4**	**5.5**
Xylene extractive (% w/w)	Reflux	2 hours	6.0	**1.0**	**11.3**
Conclusion			PASS		

Note:
°C = Degree Celcius
g/cc = Grams per cubic centimeter
% w/w = Percent by weight
NA = Not applicable
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1520 (c) 2.1.

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DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Homopolymers

Analysis performed by food simulating solvents extractions to determine compliance with above referenced regulation. [Referenced Test Method: FDA 21 CFR 177.1520]

Specimen No.			10		
Test Item	Test Condition		Result	**RL**	**Specification**
	Temperature	Duration			
Density (g/cc)	NA	NA	0.896	**NA**	**0.880–0.913**
Melting point (°C)	NA	NA	167.6	**NA**	**150-180**
n-Hexane extractive (% w/w)	Reflux	2 hours	2.3	**0.1**	**6.4**
Xylene extractive (% w/w)	25°C	1 hour	2.8	**0.5**	**9.8**
Conclusion			PASS		

Specimen No.			11		
Test Item	Test Condition		Result	**RL**	**Specification**
	Temperature	Duration			
Density (g/cc)	NA	NA	0.901	**NA**	**0.880–0.913**
Melting point (°C)	NA	NA	167.2	**NA**	**150-180**
n-Hexane extractive (% w/w)	Reflux	2 hours	2.1	**0.1**	**6.4**
Xylene extractive (% w/w)	25°C	1 hour	2.5	**0.5**	**9.8**
Conclusion			PASS		

Note:
°C = Degree Celsius
g/cc = Grams per cubic centimeter
% w/w = Percent by weight
NA = Not applicable
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1520 (c) 1.1.

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DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Homopolymers

Analysis performed by food simulating solvents extractions to determine compliance with above referenced regulation. [Referenced Test Method: FDA 21 CFR 177.1520]

Specimen No.			12		
Test Item	Test Condition		Result	**RL**	**Specification**
	Temperature	Duration			
Density (g/cc)	NA	NA	0.897	**NA**	**0.880–0.913**
Melting point (°C)	NA	NA	168.5	**NA**	**150-180**
n-Hexane extractive (% w/w)	Reflux	2 hours	2.1	**0.1**	**6.4**
Xylene extractive (% w/w)	25°C	1 hour	2.0	**0.5**	**9.8**
Conclusion			PASS		

Specimen No.			13		
Test Item	Test Condition		Result	**RL**	**Specification**
	Temperature	Duration			
Density (g/cc)	NA	NA	0.906	**NA**	**0.880–0.913**
Melting point (°C)	NA	NA	166.7	**NA**	**150-180**
n-Hexane extractive (% w/w)	Reflux	2 hours	1.7	**0.1**	**6.4**
Xylene extractive (% w/w)	25°C	1 hour	2.6	**0.5**	**9.8**
Conclusion			PASS		

Note:
°C = Degree Celsius
g/cc = Grams per cubic centimeter
% w/w = Percent by weight
NA = Not applicable
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1520 (c) 1.1.

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DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Homopolymers

Analysis performed by food simulating solvents extractions to determine compliance with above referenced regulation. [Referenced Test Method: FDA 21 CFR 177.1520]

Specimen No.			14		
Test Item	Test Condition		Result	**RL**	**Specification**
	Temperature	Duration			
Density (g/cc)	NA	NA	0.900	**NA**	**0.880–0.913**
Melting point (^{o}C)	NA	NA	168.2	**NA**	**150-180**
n-Hexane extractive (% w/w)	Reflux	2 hours	1.8	**0.1**	**6.4**
Xylene extractive (% w/w)	25^{o}C	1 hour	2.9	**0.5**	**9.8**
Conclusion			PASS		

Note:
°C = Degree Celsius
g/cc = Grams per cubic centimeter
% w/w = Percent by weight
NA = Not applicable
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1520 (c) 1.1.

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DETAILED RESULTS:

16 CFR 1500, Federal Hazardous Substances Act (FHSA), Mechanical Hazards

Mechanical hazards evaluated as described in 16 CFR 1500.51-1500.53, as applicable.

Test	Conclusion	Observation
Impact	PASS	No Sharp Edges or Sharp Points
Torque	PASS	No Sharp Edges or Sharp Points
Tension	PASS	No Sharp Edges or Sharp Points

16 CFR 1500.3(c)(6)(vi), Flammability of Solids

Flammable hazards evaluated as described in 16 CFR 1500.44.

Test	Conclusion	Observation
Flammability of Solids	PASS	The burn rate is less than 0.1 in/sec. The content is not defined as flammable solid according to 16 CFR 1500.3(c)(6)(vi).

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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Red plastic (PE)	63mm push/pull caps; Straw tip
2	Green plastic (PE)	63mm push/pull caps; 53mm push/pull caps; Straw tip
3	Black plastic (PE)	63mm push/pull caps; 53mm push/pull caps; Straw tip
4	White plastic (PE)	63mm push/pull caps; 53mm push/pull caps; Straw tip
5	Orange plastic (PE)	63mm push/pull caps; 53mm push/pull caps
6	Blue plastic (PE)	63mm push/pull caps; 53mm push/pull caps; Straw tip
7	Purple plastic (PE)	63mm push/pull caps; 53mm push/pull caps
8	Light blue plastic (PE)	63mm push/pull caps; 53mm push/pull caps
9	Translucent plastic (PE)	Straw; Membrane holder of proshot cap
10	Dull red plastic (PP-homo)	Proshot cap; 63mm straw cap
11	Dull blue plastic (PP-homo)	Proshot cap; 63mm straw cap
12	Dull black plastic (PP-homo)	Proshot cap; 63mm straw cap
13	Bright white plastic (PP-homo)	63mm straw cap
14	Bright green plastic (PP-homo)	63mm straw cap
15	Translucent soft plastic (silicone)	Membrane

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SAMPLE PHOTO:

-End Report-