

## TEST REPORT

Company: Huffermen, Inc.  
 Recipient: Eric Miller  
 Recipient Email: eric@huffermen.com  
 cc to Email: -

Test Report # 15H-01384  
 Date of Issue: April 10, 2015  
 Pages: Page 1 of 9  
 Date Received: March 26, 2015

### SAMPLE INFORMATION:

Description:	HDPE Bottles	Purchase Order Number:	-
Assortment:	-	Toy Co./Agency:	-
Product ID:	BB20, CB20, ECO20, BB28, ECO28, BT16, BT32, EC32	Country of Origin:	-
Factory/Supplier/Vendor:	-	Labeled Age Grade:	-
Country of Distribution:	-	Requested Age Grade:	3+
Quantity Submitted:	3 pcs per style	Tested Age Grade:	Over 3 years of age
Testing Period:	03/31/2015 – 04/10/2015		

### 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	CPSIA Section 108, Phthalates – Mouthable (DBP, BBP, DEHP, DnOP, DINP, DIDP)
PASS	FDA 21 CFR 177.1520, Polyethylene
PASS	16 CFR 1500, Federal Hazardous Substances Act (FHSA), Mechanical Hazards
PASS	16 CFR 1500.3(c)(6)(vi), Flammability of Solids

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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	---	---	---	Limit Total (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Pb	ND	ND	---	---	---	100
<b>Conclusion</b>	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:

#### 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+3	4+5+6	---	---	---	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (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
<b>Conclusion</b>	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:

#### 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	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Density (g/cc)	NA	NA	0.944	NA	0.85-1.00
n-Hexane extractive (% w/w)	50°C	2 hours	ND	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours	1.0	1.0	11.3
<b>Conclusion</b>			PASS		

Specimen No.			2	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Density (g/cc)	NA	NA	0.929	NA	0.85-1.00
n-Hexane extractive (% w/w)	50°C	2 hours	ND	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours	ND	1.0	11.3
<b>Conclusion</b>			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	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Density (g/cc)	NA	NA	0.936	NA	0.85-1.00
n-Hexane extractive (% w/w)	50°C	2 hours	ND	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours	1.1	1.0	11.3
<b>Conclusion</b>			PASS		

Specimen No.			4	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Density (g/cc)	NA	NA	0.937	NA	0.85-1.00
n-Hexane extractive (% w/w)	50°C	2 hours	ND	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours	ND	1.0	11.3
<b>Conclusion</b>			PASS		

*Note:*

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 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	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Density (g/cc)	NA	NA	0.932	NA	0.85-1.00
n-Hexane extractive (% w/w)	50°C	2 hours	0.5	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours	1.4	1.0	11.3
<b>Conclusion</b>			PASS		

Specimen No.			6	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Density (g/cc)	NA	NA	0.928	NA	0.85-1.00
n-Hexane extractive (% w/w)	50°C	2 hours	ND	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours	1.1	1.0	11.3
<b>Conclusion</b>			PASS		

*Note:*

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 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:*

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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
Compression	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	No Ignition. 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	White plastic	Bottle (all HDPE Bottle – white styles)
2	Red plastic	Bottle (HDPE Bottle – red style)
3	Yellow plastic	Bottle (HDPE Bottle – yellow style)
4	Blue plastic	Bottle (HDPE Bottle – blue style)
5	Black plastic	Bottle (HDPE Bottle – black style)
6	Translucent plastic	Bottle (all HDPE Bottle – frost styles)

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### SAMPLE PHOTO:



-End Report-

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