QIMA
YOUR EYES IN THE SUPPLY CHAIN

AT-1500

TEST REPORT

Test Report #	22H-007798	Date of Report Issue:	November 25, 2022
Date of Sample Received:	November 11, 2022	Pages:	Page 1 of 10

CLIENT INFORMATION:

Company:	Spector & Co.
Recipient:	Chris Pearson
Recipient Email:	chrisp@spectorandco.com

SAMPLE INFORMATION:

Description:	Zinc alloy/silicone bottle stopper		
Assortment:	Black & Brown	Purchase Order Number:	-
SKU/style No.:	SH107 / FABRIZO	Toy Co./Agency:	-
Factory/Supplier/Vendor:	USL048	Country of Origin:	China, Taiwan
Country of Distribution:	Canada, United States	Labeled Age Grade:	-
Quantity Submitted:	3 pcs per style	Recommended Age Grade:	-
Testing Period:	11/15/2022 – 11/25/2022	Tested Age Grade:	-

OVERALL RESULT: **PASS**

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

QIMA Testing (HK) Limited

Loska Yeung Lok Ka
Assistant Manager, Chemical Laboratory

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Timmy So Tsz Him
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TEST RESULTS SUMMARY:

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

CONCLUSION	TEST(S) CONDUCTED
PASS	California Proposition 65, Total Lead and Cadmium in Substrate Materials
PASS	California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)
PASS	Client's Requirement, Phthalates content
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets[#]
PASS	Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content
PASS	Canadian Textile Flammability Regulations SOR/2016-194, Non-bedding Textile

Remark:
California Proposition 65, Total Lead and Cadmium in Paints and Surface Coatings and Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead in Surface Coating Materials were not conducted as no paint and similar surface coating found on received sample.

DETAILED RESULTS:

California Proposition 65, Total Lead and Cadmium in Substrate Materials

Test Method: ASTM F963-16 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	3	4	5	---	**Total Limit (ppm)**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Cadmium (Cd)	ND	ND	ND	ND	---	**75**
Total Lead (Pb)	ND	ND	ND	24	---	**100**
Conclusion	PASS	PASS	PASS	PASS	---	

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

Remark:
The specification is quoted from client's requirement.

DETAILED RESULTS:

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

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1+2	3	---	---	**Limit (mg/kg)**
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	---	---	**1000**
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---	---	**1000**
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---	---	**1000**
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	---	**1000**
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	---	---	**1000**
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	---	---	**1000**
	Conclusion	PASS	PASS	---	---	

Note:
mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % w/w (Percent by weight)
LT = Less than
ND = Not detected (Reporting Limit = 300 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
The specification is quoted from client's requirement.

DETAILED RESULTS:

Client's Requirement, Phthalates content

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1+2	3	---	---	**Limit (mg/kg)**
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	---	---	**1000**
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---	---	**1000**
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---	---	**1000**
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	---	**1000**
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	---	---	**1000**
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	---	---	**1000**
Di-n-octyl phthalate (DNOP)	117-84-0	ND	ND	---	---	**1000**
Diethyl phthalate (DEP)	84-66-2	ND	ND	---	---	**1000**
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	---	---	**1000**
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	---	---	**1000**
Di-n-pentyl phthalate (DPENP/DnPP)	131-18-0	ND	ND	---	---	**1000**
Conclusion		PASS	PAS	---	---	

Note:
mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)
LT = Less than
ND = Not detected (Reporting Limit = 300 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
The specification is quoted from client's requirement.

DETAILED RESULTS:

FDA 21 CFR 177.1210, Closures with Sealing Gaskets

Test Method: FDA 21 CFR 177.1210#

Specimen No.			1	2		
Test Item	Test Condition		Result (ppm)	Result (ppm)	**RL (ppm)**	**Limit (ppm)**
	Temp.	Duration				
8% Ethanol extractive	120^{0}F	24 hours	ND	ND	**10**	**50**
		Conclusion	PASS	PASS		

Note:
Temp. = Temperature
°F = Degree Fahrenheit
ppm (Parts per million) = mg/kg (Milligrams per kilogram foodstuff)
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.

DETAILED RESULTS:

Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	---	---	---	---	
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Limit (mg/kg)**
Total Lead (Pb)	ND	---	---	---	---	**90**
Conclusion	PASS	---	---	---	---	

Note:
mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)
LT = Less than
ND = Not detected (Reporting Limit = 20 ppm)
Composite results are based on specimen of least mass resulting in highest potential concentration.

DETAILED RESULTS:

Canadian Textile Flammability Regulations SOR/2016-194, Non-bedding Textile

(Method: Canadian General Standards Board CAN/CGSB 4.2 NO. 27.5, Textile Test Methods)

Test	Observation	Conclusion
3 (2) Flammability test of product with a raised fibres surface	No Ignition	PASS

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Black soft plastic (Silicone)	Bottle stopper (Black style)
2	Brown soft plastic (Silicone)	Bottle stopper (Brown style)
3	Black flocked black textile with black thread	Drawstring bag/ sewing (all styles)
4	Dull black knitted textile	String of drawstring bag (all styles)
5	Bright silvery metal	Handle of bottle stopper (all styles)

SAMPLE PHOTO:

-End Report-