

**Test Report No.: 68.431.21.02327.01A**

**Dated: 2021-09-10**



**Applicant** : Spector & Co

**Address** : /

**Sample Description** : 24 OZ/700 ML SINGLE WALL TRITAN WATER BOTTLE

**Product Type / End Use** : HALO

**Item No.** : /

**PO / Order No.** PO: #71661

**Style No.** : DW103, SHOWSTOPPER

**Supplier** : USS049

**Country of Origin** : China

**Country of Destination** : CANADA & U.S.A.

**Test Sample Receipt Date, Location** : 2021-04-16, Shenzhen

**Test Period, Location** : From 2021-04-16 to 2021-05-08, Shenzhen

**Test Result(s)** : Refer to Section 3

**Laboratory:**

TÜV SÜD Certification and Testing (China)  
Co., Ltd. Shenzhen Branch  
Building 12&13, Zhiheng Wisdomland  
Business Park,  
Nantou Checkpoint Road 2, 518052, P. R.  
China

Phone : +86 755 8828 6998  
Fax: +86 755 8828 5299  
E-mail: toys\_hardline@tuv sud.com  
Web : <http://www.tuvsud.cn>

**Regd. Office:**

TÜV SÜD Certification and Testing (China)  
Co., Ltd. Shenzhen Branch  
Building 12&13, Zhiheng Wisdomland  
Business Park,  
Nantou Checkpoint Road 2, 518052, P. R.  
China



**Purpose Of Examination / Conclusion:**

No.	Test Item(s)	Conclusion
1.	US California Proposition 65 - Total Cadmium Content Test - Substrate Materials	Pass*
2.	US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials	Pass*
3.	US California Proposition 65 - Total Lead Content Test - Substrate Materials	Pass*
4.	US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials	Pass*
5.	Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test	Pass
6.	Canadian Surface Coating Materials Regulations SOR/2016-193 – Total Lead Content Test	Pass
7.	Phthalates Content (11P)	Pass*
8.	US California Proposition 65 - Phthalates Content (6P)	Pass*
9.	U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)	Pass
10.	Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Mercury Content Test	Pass
11.	<b>FDA CFR Title 21 Part 177.2420</b> Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.2420	Pass
12.	<b>FDA CFR Title 21 Part 177.1640</b> Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1640	Pass
13.	<b>FDA CFR Title 21 Part 177.1210</b> Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1210	Pass
14.	<b>Bisphenol A Content</b>	Pass*

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Remarks:

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.
- (3) "\*" denotes the conclusion was drawn according to the client's specification.
- (4) The test item and samples were specified by the client.
- (5) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expanded uncertainty for "pass", "Fail" and "Inconclusive" is 95%.
- (6) This report supersedes previous report 68.431.21.02327.01 issued on 2021-05-10. As per client's request, sample description shown on page 1 and page 4 was revised.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
TÜV SÜD Group

Prepared by:

<Cara Xiang>  
<Senior Project Coordinator>

Reviewed by:

<Ken Chen>  
<Project Manager>



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Business Park,  
Nantou Checkpoint Road 2, 518052, P. R.  
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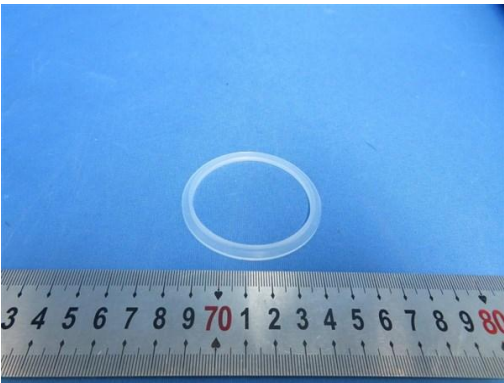
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1. Description of the Test Sample:

<b>Sample Description</b>	24 OZ/700 ML SINGLE WALL TRITAN WATER BOTTLE
	

2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Brown PS plastic (Lid)	
T2	002	White PS plastic (Lid)	
T3	003	Grey PS plastic (Lid)	
T4	004	Blue PS plastic (Lid)	
T5	005	Black PS plastic (Lid)	
T6	006	Green PS plastic (Lid)	
T7	007	Transparent coating (Bottle) (All style)	
T8	008	Translucent brown tritan plastic (Bottle)	
T9	009	Translucent white tritan plastic (Bottle)	
T10	010	Translucent grey tritan plastic (Bottle)	
T11	011	Translucent blue tritan plastic (Bottle)	
T12	012	Translucent black tritan plastic (Bottle)	
T13	013	Translucent green tritan plastic (Bottle)	
T14	014	Translucent white silicone (O-ring)	



**3. Test Result**

**3.1 US California Proposition 65 - Total Cadmium Content Test - Substrate Materials**

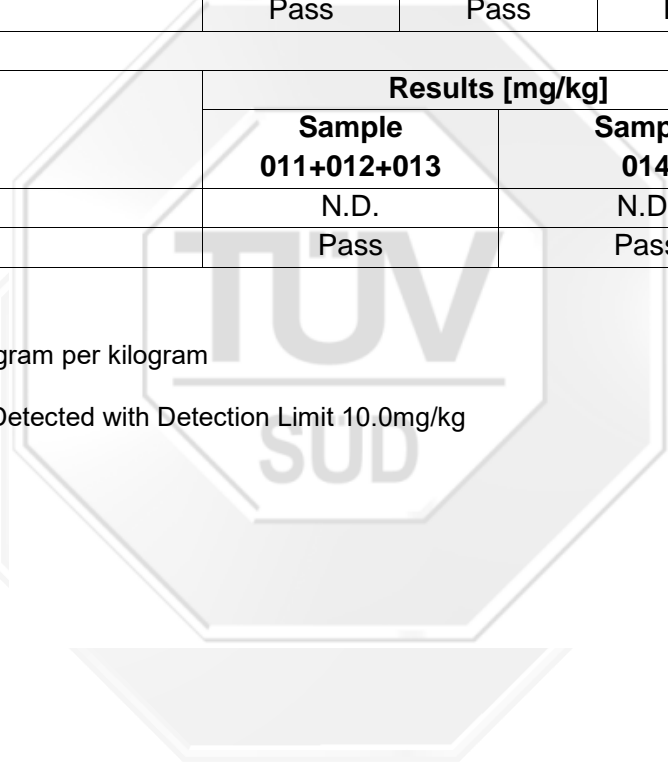
Test method: Acid digestion/Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Test item	Results [mg/kg]			Client's Specification [mg/kg]
	Sample 001+002+003	Sample 004+005+006	Sample 008+009+010	
Cadmium	N.D.	N.D.	N.D.	<75
<b>Conclusion</b>	Pass	Pass	Pass	-

Test item	Results [mg/kg]		Client's Specification [mg/kg]
	Sample 011+012+013	Sample 014	
Cadmium	N.D.	N.D.	<75
<b>Conclusion</b>	Pass	Pass	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg





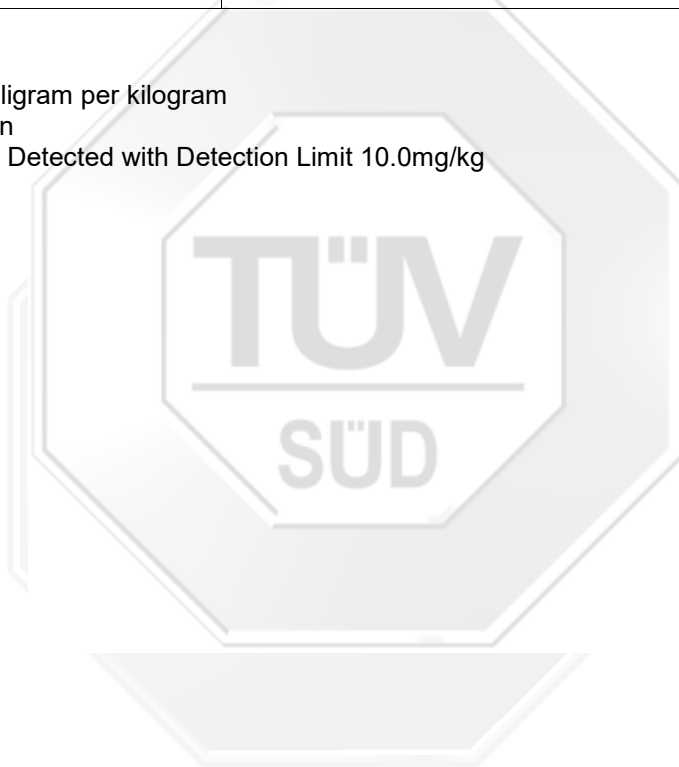
**3.2 US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials**

Test method: Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Test Item	Results [mg/kg]	Client's Specification [mg/kg]
	Sample 007	
Cadmium	N.D.	<75
<b>Conclusion</b>	Pass	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg





**3.3 US California Proposition 65 - Total Lead Content Test - Substrate Materials**

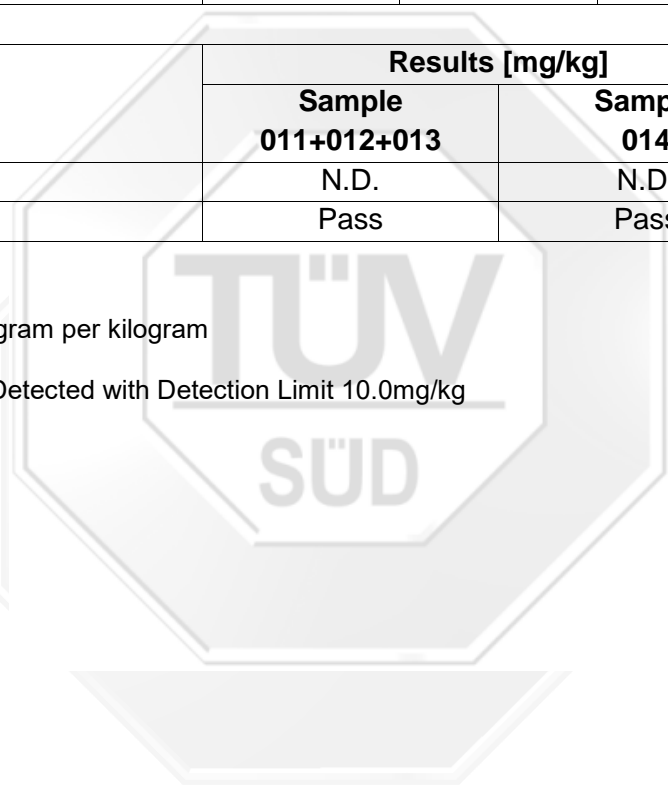
Test method: Acid digestion or Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Test Item	Results [mg/kg]			Client's Specification [mg/kg]
	Sample 001+002+003	Sample 004+005+006	Sample 008+009+010	
Lead	N.D.	N.D.	N.D.	<100
<b>Conclusion</b>	Pass	Pass	Pass	-

Test Item	Results [mg/kg]		Client's Specification [mg/kg]
	Sample 011+012+013	Sample 014	
Lead	N.D.	N.D.	<100
<b>Conclusion</b>	Pass	Pass	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg





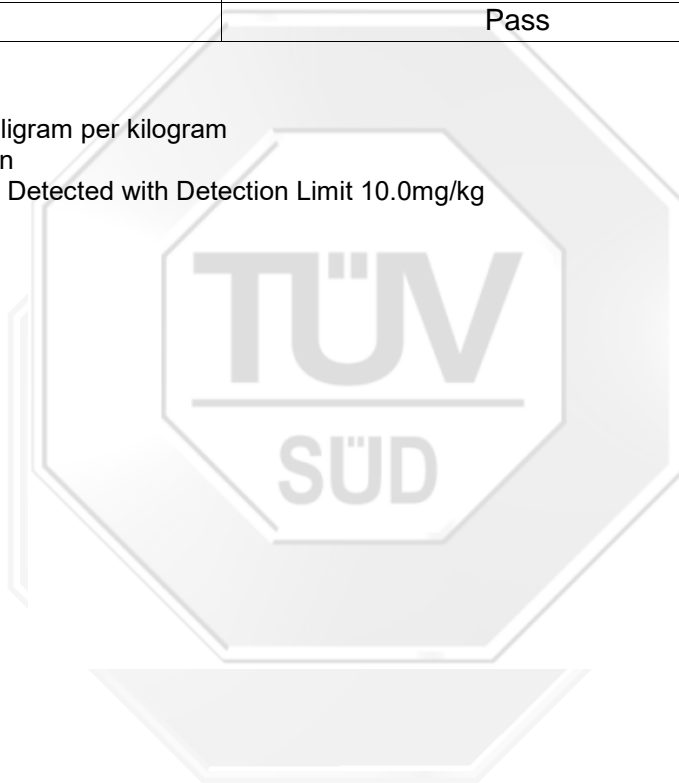
**3.4 US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials**

Test method: Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Test Item	Results [mg/kg]	Client's Specification [mg/kg]
	Sample 007	
Lead	N.D.	<90
<b>Conclusion</b>	Pass	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg







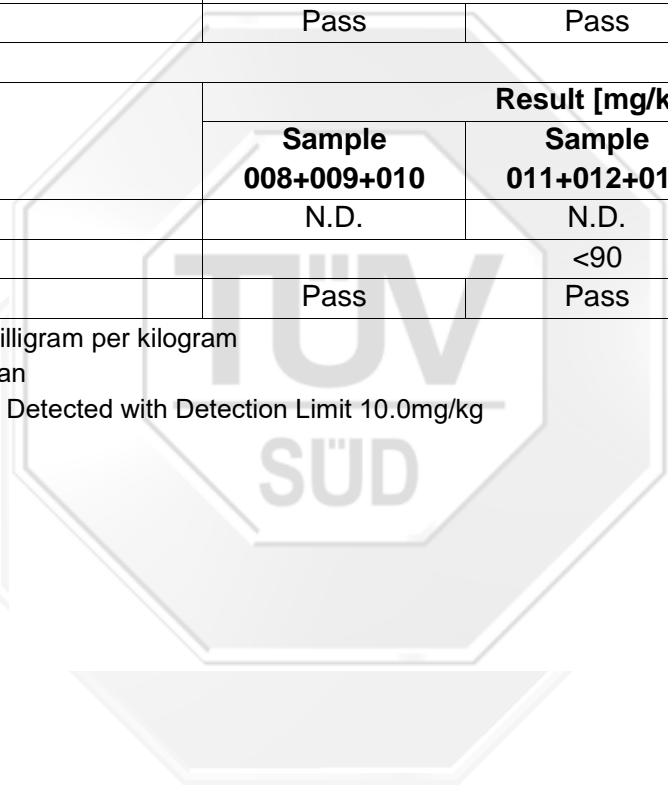
**3.5 Total Lead Content Test**

Consumer Products Containing Lead Regulations SOR/2018-83  
 Acid digestion / Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Analyte	Result [mg/kg]		
	Sample 001+002+003	Sample 004+005+006	Sample 007
Lead	N.D.	N.D.	N.D.
Limit	<90		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample 008+009+010	Sample 011+012+013	Sample 014
Lead	N.D.	N.D.	N.D.
Limit	<90		
Conclusion	Pass	Pass	Pass

- Note 1. "mg/kg" denotes milligram per kilogram  
 2. "<" denotes less than  
 3. "N.D." denotes Not Detected with Detection Limit 10.0mg/kg





**3.6 Total Lead Content Test**

Surface Coating Materials Regulations SOR/2016-193

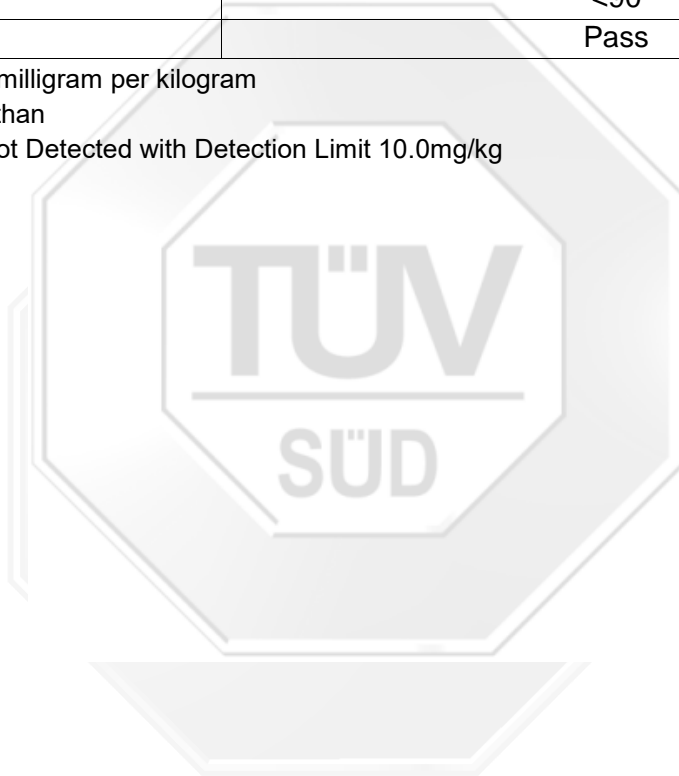
Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Analyte	Result [mg/kg]
	Sample 007
Lead	N.D.
Limit	<90
Conclusion	Pass

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

3. "N.D." denotes Not Detected with Detection Limit 10.0mg/kg



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China



**3.7 Phthalates Content (11P)**

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

Test Items	CAS No.	Results [%]			Client's Specification [%]
		Sample 001+002 +003	Sample 004+005 +006	Sample 007	
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Dibutylbenzylphthalat (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Diethyl phthalate (DEP)	84-66-2	N.D.	N.D.	N.D.	<0.1
Butylbenzylphthalat (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-iso-butylphthalat (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-isodecylphthalat (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-octylphthalat (DNOP)	117-84-0	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-n-pentylphthalat (DNPP)	131-18-0	N.D.	N.D.	N.D.	<0.1
<b>Conclusion</b>		Pass	Pass	Pass	-

- Note 1. “%” denotes percentage by weight  
 2. “<” denotes less than  
 3. “N.D.” denotes Not Detected with Detection Limit 0.005%

### 3.7 Phthalates Content (11P)

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

Test Items	CAS No.	Results [%]			Client's Specification [%]
		Sample 008+009 +010	Sample 011+012 +013	Sample 014	
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Dibutylbenzylphthalat (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Diethyl phthalate (DEP)	84-66-2	N.D.	N.D.	N.D.	<0.1
Butylbenzylphthalat (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-iso-butylphthalat (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-isodecylphthalat (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-octylphthalat (DNOP)	117-84-0	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-n-pentylphthalat (DNPP)	131-18-0	N.D.	N.D.	N.D.	<0.1
<b>Conclusion</b>		Pass	Pass	Pass	-

- Note 1. “%” denotes percentage by weight  
 2. “<” denotes less than  
 3. “N.D.” denotes Not Detected with Detection Limit 0.005%

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 China



**3.8 US California Proposition 65 - Phthalates Content (6P)**

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

Test Items	CAS No.	Results [%]			Client's Specification [%]
		Sample 001+002+003	Sample 004+005+006	Sample 007	
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DNHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
<b>Conclusion</b>		Pass	Pass	Pass	-

- Note 1. “%” denotes percentage by weight  
 2. “<” denotes less than  
 3. “N.D.” denotes Not Detected with Detection Limit 0.005%



**3.8 US California Proposition 65 - Phthalates Content (6P)**

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

Test Items	CAS No.	Results [%]			Client's Specification [%]
		Sample 008+009 +010	Sample 011+012 +013	Sample 014	
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DNHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
<b>Conclusion</b>		Pass	Pass	Pass	-

- Note 1. “%” denotes percentage by weight  
 2. “<” denotes less than  
 3. “N.D.” denotes Not Detected with Detection Limit 0.005%



**3.9 U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)**  
 CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates  
 [Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample 001+002 +003	Sample 004+005 +006	Sample 007	
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	N.D.	N.D.	N.D.	<0.1
<b>Conclusion</b>		Pass	Pass	Pass	-

- Note 1. “%” denotes percentage by weight  
 2. “<” denotes less than  
 3. “N.D.” denotes Not Detected with Detection Limit 0.005%



**3.9 U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)**  
 CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates  
 [Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample 008+009 +010	Sample 011+012 +013	Sample 014	
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	N.D.	N.D.	N.D.	<0.1
<b>Conclusion</b>		Pass	Pass	Pass	-

- Note 1. “%” denotes percentage by weight  
 2. “<” denotes less than  
 3. “N.D.” denotes Not Detected with Detection Limit 0.005%





**3.10 Total Mercury Content Test**

Surface Coating Materials Regulations SOR/2016-193

Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Test Item	Results [mg/kg]	Limit [mg/kg]
	Sample 007	
Mercury	N.D.	<10
<b>Conclusion</b>	Pass	-

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

3. "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

**3.11 FDA CFR Title 21 Part 177.2420**

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.2420

TEST ITEMS	TEST CONDITIONS	RESULT [mg/in <sup>2</sup> ]			CFR Specification [mg/in <sup>2</sup> ]
		SAMPLE 008	SAMPLE 009	SAMPLE 010	
Chloroform extractives in Distilled water	Fill boiling water and then cool to 100°F	<0.1	<0.1	<0.1	<0.1
<b>Conclusion</b>		Pass	Pass	Pass	-

TEST ITEMS	TEST CONDITIONS	RESULT [mg/in <sup>2</sup> ]			CFR Specification [mg/in <sup>2</sup> ]
		SAMPLE 011	SAMPLE 012	SAMPLE 013	
Chloroform extractives in Distilled water	Fill boiling water and then cool to 100°F	<0.1	<0.1	<0.1	<0.1
<b>Conclusion</b>		Pass	Pass	Pass	-

Note:

1. "mg/in<sup>2</sup>" denotes milligram per square inch

2. "<" denotes less than

3. "°F" denotes degree Fahrenheit

4. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.2420

**Laboratory:**

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 Nantou Checkpoint Road 2, 518052, P. R. China

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 Web : http://www.tuvsud.cn

**Regd. Office:**

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
 Building 12&13, Zhiheng Wisdomland Business Park,  
 Nantou Checkpoint Road 2, 518052, P. R. China



**3.12 FDA CFR Title 21 Part 177.1640**

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1640

TEST ITEMS	RESULTS [%]			CFR Specification [%]
	SAMPLE 001	SAMPLE 002	SAMPLE 003	
Residual styrene monomer Content	0.02	0.02	0.02	1.0
<b>Conclusion</b>	Pass	Pass	Pass	-

TEST ITEMS	RESULTS [%]			CFR Specification [%]
	SAMPLE 004	SAMPLE 005	SAMPLE 006	
Residual styrene monomer Content	0.02	0.02	0.02	1.0
<b>Conclusion</b>	Pass	Pass	Pass	-

Note:

1. “%” denotes percent by weight
2. “<” denotes less than
3. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1640

**3.13 FDA CFR Title 21 Part 177.1210**

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1210

TEST ITEMS	TEST CONDITIONS	RESULT [ppm]	CFR Specification [ppm]
		SAMPLE 014	
Chloroform extractives in Distilled water	Fill boiling water and then cool to 100°F	<10	50
Chloroform extractives in 8% Ethanol	Fill boiling water and then cool to 100°F	<10	50
<b>Conclusion</b>		Pass	-

Note:

1. “ppm” denotes part per million
2. “<” denotes less than
3. “°F” denotes degree Fahrenheit
4. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1210

**Laboratory:**

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
 Building 12&13, Zhiheng Wisdomland Business Park,  
 Nantou Checkpoint Road 2, 518052, P. R. China

Phone : +86 755 8828 6998  
 Fax: +86 755 8828 5299  
 E-mail: toys\_hardline@tuvsud.com  
 Web : <http://www.tuvsud.cn>

Regd. Office:  
 TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
 Building 12&13, Zhiheng Wisdomland Business Park,  
 Nantou Checkpoint Road 2, 518052, P. R. China



**3.14 Bisphenol A Content**

Solvent extraction and followed by LC-MSMS analysis

[Reporting Limit = 0.1mg/kg]

Analyte	Results [mg/kg]		
	Sample 001	Sample 002	Sample 003
Bisphenol A	<0.1	<0.1	<0.1
<b>Client's Limit</b>	<0.1		
<b>Conclusion</b>	Pass	Pass	Pass

Analyte	Results [mg/kg]		
	Sample 004	Sample 005	Sample 006
Bisphenol A	<0.1	<0.1	<0.1
<b>Client's Limit</b>	<0.1		
<b>Conclusion</b>	Pass	Pass	Pass

Analyte	Results [mg/kg]		
	Sample 007	Sample 008	Sample 009
Bisphenol A	<0.1	<0.1	<0.1
<b>Client's Limit</b>	<0.1		
<b>Conclusion</b>	Pass	Pass	Pass

Note:

1. "<" denotes less than
2. "mg/kg" denotes milligram per kilogram

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Co., Ltd. Shenzhen Branch  
Building 12&13, Zhiheng Wisdomland  
Business Park,  
Nantou Checkpoint Road 2, 518052, P. R.  
China

Phone : +86 755 8828 6998  
Fax: +86 755 8828 5299  
E-mail: toys\_hardline@tuv sud.com  
Web : http://www.tuvsud.cn

Regd. Office:  
TÜV SÜD Certification and Testing (China)  
Co., Ltd. Shenzhen Branch  
Building 12&13, Zhiheng Wisdomland  
Business Park,  
Nantou Checkpoint Road 2, 518052, P. R.  
China



**3.14 Bisphenol A Content**

Solvent extraction and followed by LC-MSMS analysis

[Reporting Limit = 0.1mg/kg]

Analyte	Results [mg/kg]		
	Sample 010	Sample 011	Sample 012
Bisphenol A	<0.1	<0.1	<0.1
<b>Client's Limit</b>	<0.1		
<b>Conclusion</b>	Pass	Pass	Pass

Analyte	Results [mg/kg]	
	Sample 013	Sample 014
Bisphenol A	<0.1	<0.1
<b>Client's Limit</b>	<0.1	
<b>Conclusion</b>	Pass	Pass

Note:

1. "<" denotes less than
2. "mg/kg" denotes milligram per kilogram

-- END OF TEST REPORT--

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Co., Ltd. Shenzhen Branch  
Building 12&13, Zhiheng Wisdomland  
Business Park,  
Nantou Checkpoint Road 2, 518052, P. R.  
China

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China